New Water Treatment System at the Freshwater Institute: Water Quality Data for One Year of Operation (1985/86)

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Fisheries and Aquatic Sciences 638

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NEW WATER TREATMENT SYSTEM AT THE FRESHWATER INSTITUTE: WATER QUALITY DATA FOR ONE YEAR OF OPERATION (1985/86)

by

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This is the 11th Data Report
from the Central and Arctic Region, Winnipeg

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ABSTRACT

Wagemann, R.E. Scherer, and J. Czwarno. 1987 New water treatment system at the Freshwater Institute: water quality data for one year of operation (1985/86). Can. Data Rep. Fish. Aquat. Sci. 638: iv + 114 p.

A new water system was installed at the Freshwater Institute in 1985 to make Winnipeg City tap water suitable for holding and testing of aquatic organisms. Twenty-six chemical parameters were monitored at three different points in the new system on a weekly basis over the first year of operation. Chlorine was monitored daily at four different points in the system. The numerical water quality data are provided in this report, together with sampling schedules and operational milestones.

Key words: water purification; dechlorination; trace elements; detoxification; bioassay.

RÉSUMÉ

Wagemann, R., E. Scherer, and J. Czwarno. 1987. New water treatment system at the Freshwater Institute: water quality data for one year of operation (1985/86). Can. Data Rep. Fish. Aquat. Sci. 638: iv + 114 p.

Un nouveau système de traitement de l'eau a été installé à l'Institut des eaux douces en 1985 afin de rendre l'eau du robinet de la ville de Winnipeg utilisable pour procéder à des tests sur des organismes aquatiques et pour les garder. Vingt-six paramètres chimiques ont été contrôlés chaque semaine au cours de la première année d'utilisation à trois points différents du nouveau système. On a contrôlé la teneur en chlore chaque jour à quatre points différents dans le système. Les données numériques de la qualité de l'eau sont présentées dans le rapport, tout comme les calendriers d'échantillonnage et les dates repères opérationnelles concernant le système.

Mots-clés: purification de l'eau; déchloration; oligo-éléments; détoxication; bio-essai.

INTRODUCTION

A substantially upgraded, redesigned water treatment system was put into service at the Freshwater Institute (FWI) in the fall of 1985 for the removal of chlorine by physical and photochemical processes and for improving generally the water quality. The major components of this system and their functional connections are outlined in Fig. 1. Operational milestones in the implementation of the system, and the water sampling startup dates and discontinuities are given in Table 1. The 26 chemical and physical parameters monitored on a weekly basis during the first year of operation of the system are identified in Table 2. Numerical data for these 26 parameters are given in Appendix 1. Numerical data for total residual chlorine, monitored twice daily at various points (stations) in the system, are given in Appendix 2.

The performance of the system was evaluated in another report (Wagemann et al. 1987), based on data presented here.

SAMPLING AND CHEMICAL ANALYSES

Samples were collected for chemical analyses once a week (Thursday p.m.), from three different points in the system (Stations 1,4,9, Fig. 1). For total residual chlorine analysis, samples were also collected daily (Monday to Friday a.m. and p.m.), and additionally from Station 3.

Total residual chlorine was measured spectrophotometrically (10 cm path length at Station 9, and 1 cm path length at Station 1) by the ortho-tolidine method (APHA 1971). The minimum reliably-measured concentration we estimate to be µg/L, while the detection limit was somewhat less than this. Five chromate-dicromate standards, in the concentration range 1-25 µg/L were used to calibrate the instrument, and phosphate buffer itself was used as the blank. A typical calibration graph is shown in Fig. 2.

For trace metal analysis, samples were collected in 500 mL polyethylene bottles, cleaned by soaking overnight in 10% nitric acid followed by three rinses with deionized water. New bottles were soaked overnight in a detergent solution prior to acid washing. Trace metals were measured by flameless atomic absorption (graphite furnace) on unfiltered samples, using a Varian 975 AA with GTA-95 furnace. Diluted Fisher AA standards were used for instrument calibration.

The methods given in the FWI manual (Stainton et al. 1977) were used for the determination of all other constituents listed.

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REFERENCES

STAINTON, M.P., M.J. CAPEL, and F.A.J. ARMSTRONG. 1977. The chemical analysis of fresh water. 2nd ed. Can. Fish. Mar. Serv. Misc. Spec. Publ. 25: vi + 17 p.

WAGEMANN, R., E. SCHERER, and J. CZWARNO. 1987. New water treatment system at the Freshwater Institute: description and performance evaluation after one year of operation (1985/86). Can. Manuscr. Rep. Fish. Aquat. Sci. 1919: iv + 31 p.

Table 1. Operational milestones and sampling schedule.

System Startup:

August 12/85	- Flushing of distribution systems (taps in laboratories opened) under increased pressure. Only "Mixed Media" filters and "Ozonators" were in the system. Stations #1, #4, and #9 (see Fig. 1) sampled approximately daily, and analyzed for suspended and total dissolved organic carbon.
August 19/85	- "UV" units and "Product Water Filters (10° C) were switched into the system.
August 20/85	- "Activated Carbon" filters were switched into the system.
August 21/85	- Gas balancing towers (10° C) switched into system.
August 22/85	- Full water quality monitoring begun. Stations #1, #4, and #9, sampled once a week (Thursday a.m.) including residual chlorine.
September 9/85	- Started sampling at station #9 twice daily, morning and afternoon for residual chlorine.
September 19/85	- Carbon filters backwashed for first time.
September 26/85	- System tested for increased flows by opening 3 one-and-a-half inch valves in the Wet Lab. Flow increased from approximately 350 L/min. to 700 L/min.
October 1-2/85	- 11:00 a.m. to 2:00 p.m. maximum flow rate, 660 L/min. At all other times, flow rate was approximately 360 L/min.
November 6/85	- The 5° C system became operational.
November 26/85	- Ozone generators switched off.
December 19/85	- Stopped sampling and analyzing for Cl^-, SO_4^{--}, Na^+, K^+, Ca^{++}, and Mg^{++}.
February(end)/85	- Ozone generators put back into service.
April 30/86	- Ozone generators became inoperative at approximately 1800 hours.
May 1/86	- 5° C system started and all water channelled through 5° C system instead of 10° C as an experimental test to observe the back-up system.
May 2/86	- 10° C system back in service. Ozone generators restarted.
May 2 to September/86	- System continued in normal operation.

Table 2. Water quality parameters monitored.

Anions	Cations	Others
Nitrate	Sodium	Suspended C and N
Nitrite	Potassium	Suspended P
Ammonia	Calcium	Total Suspended Solids
Chloride	Magnesium	Total Suspended Iron
Sulphate	Iron	Conductivity
TDP	Manganese	pH
TDN	Aluminium	CO_2
DIC	Copper	Chlorine
DOC	Zinc	

Additional measurements (e.g. other trace metals, organochlorines, hydrocarbons) may be performed in the future on a less frequent basis, or when requested by research scientists.

FWI WATER TREATMENT SYSTEM (1985)
(SAMPLING STATIONS)

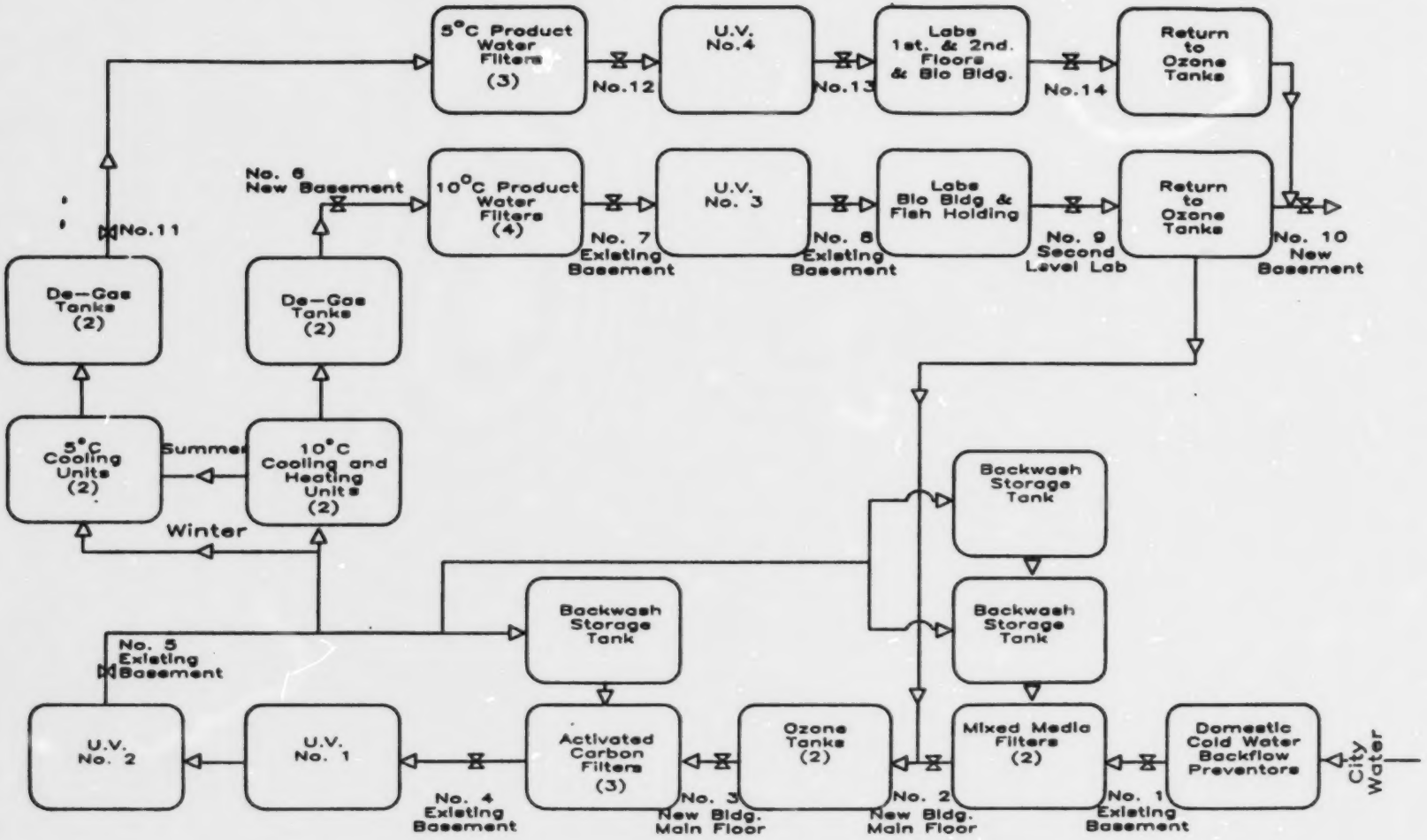

Fig. 1. Schematic of FWI Water Treatment System. Water samples were taken for analysis at stations 1, 3, 4 and 9. Sampling stations are indicated by numbers between component blocks.

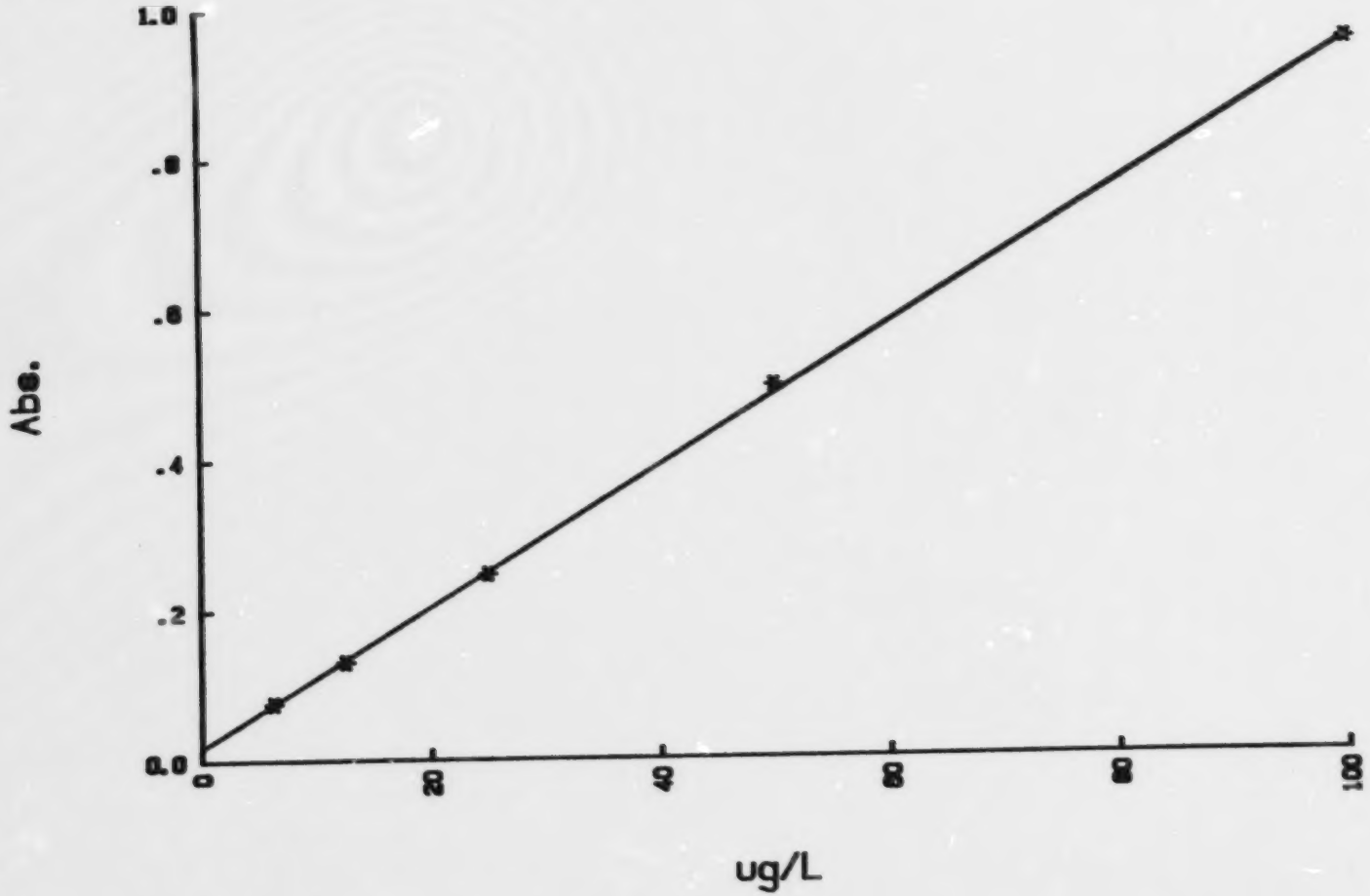

Fig. 2. Typical calibration graph for chlorine determinations using chromate-dichromate standards and 10 cm path length cell.

Appendix 1. Numerical data for 26 parameters monitored weekly.

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug.22/85	Nitrate	ug/L	5	8	2
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	30	30	30
"	Chloride	mg/L	5.5	5.0	5.0
"	Sulphate	mg/L	3.4	1.0	1.0
"	TDN	ug/L	420	120	110
"	TDP	ug/L	21	14	13
"	DIC	uM/L	1300	1350	1300
"	DOC	uM/L	590	120	100
Date	Cations				
Aug. 22/85	Sodium	mg/L	1.92	1.78	1.75
"	Potassium	mg/L	1.16	1.18	1.18
"	Calcium	mg/L	20.9	20.0	19.3
"	Magnesium	mg/L	5.85	5.79	5.79
"	Manganese	ug/L	24	4.5	4.7
"	Iron	ug/L	57	26	26
"	Aluminium	ug/L	5.6	3.2	3.2
"	Copper	ug/L	1.11	0.64	0.28
"	Zinc	ug/L	0.3	0.2	0.1
Date	Other Constituents				
Aug.22/85	Susp.C	ug/L	440	180	160
"	Susp.N	ug/L	66	22	22
"	Susp P	ug/L	8	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	46	13	11
"	CO2	uM/L	28.0	4.0	3.0
"	pH		7.98	8.81	8.85
"	Conduct.	uS/cm	158	154	152
"	Chlorine	ug/L	616.4	7.0	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug.29/85	Nitrate	ug/L	4	5	5
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	<10	<10	<10
"	Chloride	mg/L	5.5	5.4	5.7
"	Sulphate	mg/L	3.3	2.8	2.9
"	TDN	ug/L	440	160	130
"	TDP	ug/L	20	14	12
"	DIC	uM/L	1300	1300	1300
"	DOC	uM/L	630	120	100

Date	Cations				
Aug.29/85	Sodium	mg/L	1.80	1.83	1.80
"	Potassium	mg/L	1.30	1.26	1.28
"	Calcium	mg/L	20.0	19.8	20.0
"	Magnesium	mg/L	5.11	5.04	5.11
"	Manganese	ug/L	34	4.3	4.0
"	Iron	ug/L	66	30	30
"	Aluminium	ug/L	10	2.3	4.7
"	Copper	ug/L	1.16	0.57	0.40
"	Zinc	ug/L	0.4	0.5	0.2

Date	Other Constituents				
Aug.29/85	Susp.C	ug/L	540	290	220
"	Susp.N	ug/L	74	47	34
"	Susp.P	ug/L	10	8	4
"	TSS	mg/L	2	1	1
"	Susp.Fe	ug/L	55	13	21
"	CO2	uM/L	79.0	13	15
"	pH		7.98	8.29	8.23
"	Conduct.	uS/cm	156	158	158
"	Chlorine	ug/L	533	12.10	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sept.5/85	Nitrate	ug/L	5	5	1
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	5.5	5.4	5.4
"	Sulphate	mg/L	3.3	3.3	7.8
"	TDN	ug/L	430	150	130
"	TDP	ug/L	15	11	10
"	DIC	uM/L	1210	1250	1240
"	DOC	uM/L	630	120	140
Date	Cations				
Sept.5/85	Sodium	mg/L	1.71	1.72	3.45
"	Potassium	mg/L	1.26	1.28	1.32
"	Calcium	mg/L	20.5	20.5	21.0
"	Magnesium	mg/L	5.31	5.15	5.31
"	Manganese	ug/L	38	4.7	4.0
"	Iron	ug/L	71	22	24
"	Aluminium	ug/L	10	3.4	3.6
"	Copper	ug/L	1.22	0.34	0.30
"	Zinc	ug/L	0.4	0.1	<0.1
Date	Other Constituents				
Sept.5/85	Susp.C	ug/L	530	180	190
"	Susp.N	ug/L	78	25	25
"	Susp.P	ug/L	9	3	4
"	TSS	mg/L	2	<1	<1
"	Susp.Fe	ug/L	59	11	12
"	CO2	uM/L	20.0	13.0	15.0
"	pH		8.11	8.28	8.21
"	Conduct.	uS/cm	158	163	173
"	Chlorine	ug/L	474.1	13.4	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sept.12/85	Nitrate	ug/L	2	2	2
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	20	40
"	Chloride	mg/L	5.9	4.7	5.6
"	Sulphate	mg/L	3.3	3.9	3.9
"	TDN	ug/L	440	170	170
"	TDP	ug/L	19	14	13
"	DIC	uM/L	1400	1450	1400
"	DOC	uM/L	620	190	200

Date	Cations				
Sept.12/85	Sodium	mg/L	1.81	1.83	1.81
"	Potassium	mg/L	1.17	1.17	1.17
"	Calcium	mg/L	20.2	19.7	19.7
"	Magnesium	mg/L	5.51	5.48	5.42
"	Manganese	ug/L	34	1.6	1.1
"	Iron	ug/L	67	24	24
"	Aluminium	ug/L	7.4	1.2	1.0
"	Copper	ug/L	1.15	0.34	0.22
"	Zinc	ug/L	0.1	<0.1	<0.1

Date	Other Constituents				
Sept.12/85	Susp.C	ug/L	630	190	180
"	Susp.N	ug/L	92	26	24
"	Susp.P	ug/L	10	3	3
"	TSS	mg/L	2	<1	<1
"	Susp.Fe	ug/L	52	10	10
"	C02	uM/L	41.0	40.0	22.0
"	pH		7.75	7.77	8.04
"	Conduct.	uS/cm	160	162	162
"	Chlorine	ug/L	489.3	6.8	1.8

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sept.19/85	Nitrate	ug/L	6	28	23
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	50	830	50
"	Chloride	mg/L	5.6	7.9	5.9
"	Sulphate	mg/L	3.5	10.7	3.7
"	TDN	ug/L	430	1040	300
"	TDP	ug/L	16	16	14
"	DIC	uM/L	1350	1750	1350
"	DOC	uM/L	560	230	330
Date	Cations				
Sept.19/85	Sodium	mg/L	1.81	4.15	1.85
"	Potassium	mg/L	1.12	1.28	1.22
"	Calcium	mg/L	19.9	25.7	20.4
"	Magnesium	mg/L	5.48	7.36	5.55
"	Manganese	ug/L	16	1.3	4.1
"	Iron	ug/L	47	44	24
"	Aluminium	ug/L	8.4	1.0	1.3
"	Copper	ug/L	0.8	0.4	0.3
"	Zinc	ug/L	<0.1	0.1	<0.1
Date	Other Constituents				
Sept.19/85	Susp.C	ug/L	444	240	240
"	Susp.N	ug/L	67	34	31
"	Susp.P	ug/L	8	4	11
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	35	12	47
"	CO2	uM/L	28.0	34.0	35.0
"	pH		8.01	8.06	7.91
"	Conduct.	uS/cm	162	206	164
"	Chlorine	ug/L	310.4	8.8	34.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sept.27/85	Nitrate	ug/L	10	4	5
"	Nitrite	ug/L	<1	2	2
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	4.1	5.0	4.9
"	Sulphate	mg/L	3.5	3.7	3.7
"	TDN	ug/L	430	210	210
"	TDP	ug/L	15	11	12
"	DIC	uM/L	1350	1450	1400
"	DOC	uM/L	590	290	250
Date	Cations				
Sept.27/85	Sodium	mg/L	2.03	1.87	1.85
"	Potassium	mg/L	1.43	1.37	1.33
"	Calcium	mg/L	21.9	21.4	21.4
"	Magnesium	mg/L	1.43	1.37	1.33
"	Manganese	ug/L	15	1.2	1.6
"	Iron	ug/L	40	22	20
"	Aluminium	ug/L	6.3	1.0	1.6
"	Copper	ug/L	0.9	0.5	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1
Date	Other Constituents				
Sept.27/85	Susp.C	ug/L	440	190	180
"	Susp.N	ug/L	71	26	25
"	Susp.P	ug/L	8	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	35	9	8
"	CO2	uM/L	27.0	23.0	20.0
"	pH		8.02	8.08	8.14
"	Conduct.	uS/cm	155	156	156
"	Chlorine	ug/L	340.9	9.0	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.2/85	Nitrate	ug/L	10	14	13
"	Nitrite	ug/L	<1	4	5
"	Ammonia	ug/L	10	10	10
"	Chloride	mg/L	4.6	4.7	4.7
"	Sulphate	mg/L	3.6	3.8	3.8
"	TDN	ug/L	470	310	300
"	TDP	ug/L	13	10	10
"	DIC	uM/L	1250	1290	1280
"	DOC	uM/L	610	380	370
Date	Cations				
Oct.2/85	Sodium	mg/L	1.82	1.87	1.85
"	Potassium	mg/L	1.31	1.35	1.33
"	Calcium	mg/L	21.6	21.6	21.4
"	Magnesium	mg/L	5.83	5.79	5.72
"	Manganese	ug/L	12	2.6	2.6
"	Iron	ug/L	38	16	16
"	Aluminium	ug/L	8.1	2.9	2.4
"	Copper	ug/L	0.8	0.3	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1
Date	Other Constituents				
Oct.2/85	Susp.C	ug/L	500	220	230
"	Susp.N	ug/L	79	31	33
"	Susp.P	ug/L	8	3	3
"	TSS	mg/L	1	1	1
"	Susp.Fe	ug/L	35	10	11
"	CO2	uM/L	23.0	26.0	21.0
"	pH		8.06	8.02	8.11
"	Conduct.	uS/cm	152	154	154
"	Chlorine	ug/L	484.0	20.1	6.2

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.3/85	Nitrate	ug/L	10	13	13
"	Nitrite	ug/L	<1	2	2
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	4.6	4.4	5.0
"	Sulphate	mg/L	3.6	3.9	3.9
"	TDN	ug/L	460	260	260
"	TDP	ug/L	14	10	10
"	DIC	uM/L	1260	1270	1260
"	DOC	uM/L	680	360	420

Date	Cations				
Oct.3/85	Sodium	mg/L	1.80	1.86	1.82
"	Potassium	mg/L	1.35	1.29	1.31
"	Calcium	mg/L	21.4	21.2	21.4
"	Magnesium	mg/L	5.75	5.75	5.79
"	Manganese	ug/L	10	2.4	2.9
"	Iron	ug/L	34	16	16
"	Aluminium	ug/L	7.1	2.4	2.1
"	Copper	ug/L	0.8	0.3	0.2
"	Zinc	ug/L	0.1	<0.1	<0.1

Date	Other Constituents				
Oct.3/85	Susp.C	ug/L	450	210	190
"	Susp.N	ug/L	72	29	27
"	Susp.P	ug/L	8	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	29	7	7
"	CO2	uM/L	19.0	22.0	18.0
"	pH		8.13	8.07	8.16
"	Conduct.	uS/cm	154	155	156
"	Chlorine	ug/L	535.5	12.2	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.10/85	Nitrate	ug/L	6	15	16
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	30
"	Chloride	mg/L	4.3	4.5	4.6
"	Sulphate	mg/L	3.8	4.1	4.0
"	TDN	ug/L	460	290	290
"	TDP	ug/L	15	12	13
"	DIC	uM/L	1420	1460	1400
"	DOC	uM/L	550	330	370

Date	Cations				
Oct.10/85	Sodium	mg/L	1.82	1.80	1.79
"	Potassium	mg/L	1.31	1.27	1.29
"	Calcium	mg/L	21.4	20.7	21.2
"	Magnesium	mg/L	5.75	5.72	5.72
"	Manganese	ug/L	10	2.4	1.8
"	Iron	ug/L	44	25	26
"	Aluminium	ug/L	8.0	4.1	4.3
"	Copper	ug/L	0.6	0.3	0.2
"	Zinc	ug/L	0.2	0.3	<0.1

Date	Other Constituents				
Oct.10/85	Susp.C	ug/L	460	220	220
"	Susp.N	ug/L	70	35	34
"	Susp.P	ug/L	7	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	25	7	7
"	CO2	uM/L	27.0	26.0	22.0
"	pH		8.04	8.07	8.13
"	Conduct.	uS/cm	152	155	155
"	Chlorine	ug/L	487.1	14.6	5.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.17/85	Nitrate	ug/L	6	14	15
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	4.4	5.1	5.1
"	Sulphate	mg/L	3.9	4.0	4.1
"	TDN	ug/L	480	310	330
"	TDP	ug/L	13	10	10
"	DIC	uM/L	1400	1470	1350
"	DOC	uM/L	650	430	430

Date	Cations				
Oct.17/85	Sodium	mg/L	1.79	1.79	1.80
"	Potassium	mg/L	1.27	1.29	1.31
"	Calcium	mg/L	21.9	21.6	21.6
"	Magnesium	mg/L	5.83	5.79	5.83
"	Manganese	ug/L	11	3.0	2.4
"	Iron	ug/L	53	31	31
"	Aluminium	ug/L	16	6.7	7.0
"	Copper	ug/L	0.7	0.2	0.2
"	Zinc	ug/L	0.2	0.2	0.2

Date	Other Constituents				
Oct.17/85	Susp.C	ug/L	440	270	210
"	Susp.N	ug/L	61	68	35
"	Susp.P	ug/L	6	4	4
"	TSS	mg/L	1	1	1
"	Susp.Fe	ug/L	26	10	11
"	CO2	uM/L	23.0	24.0	18.0
"	pH		8.10	8.13	8.20
"	Conduct.	uS/cm	154	156	156
"	Chlorine	ug/L	785.7	21.9	5.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.24/85	Nitrate	ug/L	4	8	7
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	10	10	10
"	Chloride	mg/L	4.5	5.1	5.1
"	Sulphate	mg/L	NS	NS	NS
"	TDN	ug/L	470	310	320
"	TDP	ug/L	15	13	13
"	DIC	uM/L	1340	1450	1420
"	DOC	uM/L	630	400	400

Date	Cations				
Oct.24/85	Sodium	mg/L	1.89	1.94	1.87
"	Potassium	mg/L	1.25	1.21	1.19
"	Calcium	mg/L	22.6	21.3	21.8
"	Magnesium	mg/L	6.37	5.85	6.07
"	Manganese	ug/L	15	4.8	4.2
"	Iron	ug/L	57	36	36
"	Aluminium	ug/L	14	5.1	5.4
"	Copper	ug/L	0.8	0.3	0.3
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Oct.24/85	Susp.C	ug/L	444	240	240
"	Susp.N	ug/L	67	34	31
"	Susp.P	ug/L	7	4	4
"	TSS	mg/L	1	1	1
"	Susp.Fe	ug/L	34	12	11
"	CO2	uM/L	31.0	36.0	23.0
"	pH		7.95	7.93	8.11
"	Conduct.	uS/cm	155	156	156
"	Chlorine	ug/L	530.1	20.1	5.1

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Oct.31/85	Nitrate	ug/L	<1	2	2
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	<10	10	10
"	Chloride	mg/L	5.0	5.0	5.0
"	Sulphate	mg/L	3.7	3.8	3.8
"	TDN	ug/L	480	360	380
"	TDP	ug/L	16	14	14
"	DIC	uM/L	1360	1400	1440
"	DOC	uM/L	620	450	420
Date	Cations				
Oct.31/85	Sodium	mg/L	1.90	1.87	1.95
"	Potassium	mg/L	1.29	1.29	1.37
"	Calcium	mg/L	21.8	21.8	21.8
"	Magnesium	mg/L	6.00	6.00	6.07
"	Manganese	ug/L	10	3.6	2.2
"	Iron	ug/L	56	40	39
"	Aluminium	ug/L	14	7.7	6.0
"	Copper	ug/L	0.8	0.3	0.2
"	Zinc	ug/L	0.1	<0.1	<0.1
Date	Other Constituents				
Oct.31/85	Susp.C	ug/L	620	350	540
"	Susp.N	ug/L	78	37	36
"	Susp.P	ug/L	8	4	4
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	42	13	14
"	CO2	uM/L	30.0	33.0	24.0
"	pH		7.98	7.96	8.11
"	Conduct.	uS/cm	153	155	155
"	Chlorine	ug/L	514.6	16.7	4.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Nov. 7/85	Nitrate	ug/L	3	16	18
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	<10	20	20
"	Chloride	mg/L	4.5	5.0	5.0
"	Sulphate	mg/L	3.6	3.8	3.7
"	TDN	ug/L	460	350	350
"	TDP	ug/L	18	15	4
"	DIC	uM/L	1480	1480	1450
"	DOC	uM/L	640	480	450

Date	Cations				
Nov. 7/85	Sodium	mg/L	1.84	1.86	1.89
"	Potassium	mg/L	1.19	1.19	1.19
"	Calcium	mg/L	21.8	22.2	21.8
"	Magnesium	mg/L	6.00	6.15	5.92
"	Manganese	ug/L	7.7	2.4	2.2
"	Iron	ug/L	55	34	34
"	Aluminium	ug/L	9.6	5.2	5.6
"	Copper	ug/L	0.6	0.4	0.2
"	Zinc	ug/L	0.1	<0.1	<0.1

Date	Other Constituents				
Nov. 7/85	Susp.C	ug/L	520	260	290
"	Susp.N	ug/L	61	32	32
"	Susp.P	ug/L	6	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	30	11	11
"	CO2	uM/L	32.0	28.0	21.0
"	pH		7.99	8.06	8.18
"	Conduct.	uS/cm	154	155	155
"	Chlorine	ug/L	566.4	16.8	16.1

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Nov.14/85	Nitrate	ug/L	2	14	12
"	Nitrite	ug/L	<1	1	2
"	Ammonia	ug/L	20	30	20
"	Chloride	mg/L	4.5	5.0	5.0
"	Sulphate	mg/L	3.6	3.7	3.7
"	TDN	ug/L	430	370	360
"	TDP	ug/L	16	13	13
"	DIC	uM/L	1480	1400	1400
"	DOC	uM/L	610	490	460
Date	Cations				
Nov.14/85	Sodium	mg/L	1.87	1.94	1.87
"	Potassium	mg/L	1.21	1.23	1.19
"	Calcium	mg/L	21.8	21.8	21.8
"	Magnesium	mg/L	6.00	6.07	6.15
"	Manganese	ug/L	12	4.2	2.9
"	Iron	ug/L	68	41	39
"	Aluminium	ug/L	12	7.0	5.9
"	Copper	ug/L	0.6	0.3	0.2
"	Zinc	ug/L	0.3	<0.1	<0.1
Date	Other Constituents				
Nov.14/85	Susp.C	ug/L	560	330	290
"	Susp.N	ug/L	61	35	30
"	Susp.P	ug/L	6	4	3
"	TSS	mg/L	1	1	<1
"	Susp.Fe	ug/L	36	15	10
"	C02	uM/L	29.0	21.0	17.0
"	pH		8.04	8.14	8.22
"	Conduct.	uS/cm	156	156	156
"	Chlorine	ug/L	638.6	31.6	19.2

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Nov.21/85	Nitrate	ug/L	5	23	23
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	<10	10	10
"	Chloride	mg/L	4.5	4.5	4.5
"	Sulphate	mg/L	3.5	3.5	3.5
"	TDN	ug/L	420	340	330
"	TDP	ug/L	16	13	13
"	DIC	uM/L	1500	1500	1450
"	DOC	uM/L	630	430	490
Date	Cations				
Nov.21/85	Sodium	mg/L	1.75	1.73	1.75
"	Potassium	mg/L	1.28	1.26	1.30
"	Calcium	mg/L	24.2	23.7	21.6
"	Magnesium	mg/L	5.56	6.06	6.06
"	Manganese	ug/L	9.5	5.6	3.2
"	Iron	ug/L	75	44	38
"	Aluminium	ug/L	12	9.4	8.5
"	Copper	ug/L	0.6	0.3	0.1
"	Zinc	ug/L	0.4	<0.1	<0.1
Date	Other Constituents				
Nov.21/85	Susp.C	ug/L	520	380	250
"	Susp.N	ug/L	61	42	28
"	Susp.P	ug/L	6	4	3
"	TSS	mg/L	1	1	<1
"	Susp.Fe	ug/L	40	20	12
"	CO2	uM/L	40.0	34.0	21.0
"	pH		7.89	7.97	8.17
"	Conduct.	uS/cm	158	159	159
"	Chlorine	ug/L	646.7	28.0	8.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Nov.28/85	Nitrate	ug/L	4	30	30
"	Nitrite	ug/L	<1	1	2
"	Ammonia	ug/L	10	20	30
"	Chloride	mg/L	3.5	4.0	4.0
"	Sulphate	mg/L	3.5	3.0	3.5
"	TDN	ug/L	460	350	360
"	TDP	ug/L	16	13	12
"	DIC	uM/L	1770	1770	1690
"	DOC	uM/L	630	440	470
Date	Cations				
Nov.28/85	Sodium	mg/L	1.92	1.87	2.01
"	Potassium	mg/L	1.27	1.23	1.25
"	Calcium	mg/L	22.6	23.0	22.6
"	Magnesium	mg/L	6.32	6.32	6.32
"	Manganese	ug/L	5.9	3.5	3.2
"	Iron	ug/L	61	38	38
"	Aluminium	ug/L	7.5	7.4	6.4
"	Copper	ug/L	0.6	0.3	0.2
"	Zinc	ug/L	0.2	<0.1	<0.1
Date	Other Constituents				
Nov.28/85	Susp.C	ug/L	300	280	250
"	Susp.N	ug/L	39	34	31
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	20	12	12
"	CO2	uM/L	33.0	31.0	32.0
"	pH		8.07	8.08	8.05
"	Conduct.	uS/cm	165	165	166
"	Chlorine	ug/L	538.0	26.6	9.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Dec.05/85	Nitrate	ug/L	8	21	22
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	<10	10	10
"	Chloride	mg/L	3.5	4.0	4.0
"	Sulphate	mg/L	3.5	3.5	3.5
"	TDN	ug/L	420	400	420
"	TDP	ug/L	15	13	13
"	DIC	uM/L	1490	1490	1440
"	DOC	uM/L	610	500	470
Date	Cations				
Dec.05/85	Sodium	mg/L	1.93	1.95	1.98
"	Potassium	mg/L	1.25	1.29	1.25
"	Calcium	mg/L	23.0	23.0	23.0
"	Magnesium	mg/L	6.32	6.40	6.25
"	Manganese	ug/L	7.8	3.5	3.5
"	Iron	ug/L	68	48	51
"	Aluminium	ug/L	5.5	4.6	8.0
"	Copper	ug/L	0.5	0.3	0.2
"	Zinc	ug/L	0.2	0.1	0.1
Date	Other Constituents				
Dec.05/85	Susp.C	ug/L	320	210	220
"	Susp.N	ug/L	37	25	27
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	23	13	15
"	CO2	uM/L	46.0	44.0	20.0
"	pH		7.84	7.85	8.16
"	Conduct.	uS/cm	169	170	170
"	Chlorine	ug/L	490.5	37.3	18.2

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Dec.12/85	Nitrate	ug/L	5	8	9
"	Nitrite	ug/L	<1	2	2
"	Ammonia	ug/L	30	30	40
"	Chloride	mg/L	2.9	3.5	3.5
"	Sulphate	mg/L	3.4	3.4	3.5
"	TDN	ug/L	460	380	440
"	TDP	ug/L	15	14	13
"	DIC	uM/L	1590	1640	1580
"	DOC	uM/L	670	550	520
Date	Cations				
Dec.12/85	Sodium	mg/L	2.21	2.18	2.13
"	Potassium	mg/L	1.35	1.33	1.39
"	Calcium	mg/L	23.7	23.3	23.3
"	Magnesium	mg/L	6.38	6.27	6.27
"	Manganese	ug/L	5.4	1.7	2.0
"	Iron	ug/L	66	47	45
"	Aluminium	ug/L	3.4	2.8	2.3
"	Copper	ug/L	0.5	0.2	0.2
"	Zinc	ug/L	0.2	<0.1	<0.1
Date	Other Constituents				
Dec.12/85	Susp.C	ug/L	230	180	190
"	Susp.N	ug/L	28	23	22
"	Susp.P	ug/L	3	2	2
"	TSS	mg/L	1	<1	<1
"	Susp.Fe	ug/L	19	10	12
"	CO2	uM/L	39.0	40.0	25.0
"	pH		7.94	7.94	8.14
"	Conduct.	uS/cm	162	163	163
"	Chlorine	ug/L	304.5	28.6	10.6

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Dec.19/85	Nitrate	ug/L	4	6	7
"	Nitrite	ug/L	<1	1	1
"	Ammonia	ug/L	20	20	20
"	Chloride	mg/L	*.*	*.*	*.*
"	Sulphate	mg/L	*.*	*.*	*.*
"	TDN	ug/L	460	400	460
"	TDP	ug/L	14	11	10
"	DIC	uM/L	1690	1670	1580
"	DOC	uM/L	710	560	580
Date	Cations				
Dec.19/85	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	6.7	1.9	2.3
"	Iron	ug/L	66	46	47
"	Aluminium	ug/L	2.9	3.4	4.5
"	Copper	ug/L	0.4	0.1	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1
Date	Other Constituents				
Dec.19/85	Susp.C	ug/L	230	180	200
"	Susp.N	ug/L	27	21	25
"	Susp.P	ug/L	3	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	16	12	13
"	C022	uM/L	20.0	19.0	17.0
"	pH		8.25	8.27	8.27
"	Conduct.	uS/cm	164	164	164
"	Chlorine	ug/L	118.4	29.5	10.8

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jan. 2/86	Nitrate	ug/L	9	5	5
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	*.*	*.*	*.*
"	Sulphate	mg/L	*.*	*.*	*.*
"	TDN	ug/L	450	390	360
"	TDP	ug/L	14	13	12
"	DIC	uM/L	1720	1720	1640
"	DOC	uM/L	690	580	560
Date	Cations				
Jan. 2/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	10	2.9	2.9
"	Iron	ug/L	92	60	59
"	Aluminium	ug/L	4.1	2.6	3.1
"	Copper	ug/L	0.8	0.2	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1
Date	Other Constituents				
Jan. 2/86	Susp.C	ug/L	210	180	180
"	Susp.N	ug/L	26	22	22
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	43	18	17
"	CO2	uM/L	82.0	52.0	24.0
"	pH		7.64	7.84	8.16
"	Conduct.	uS/cm	182	177	177
"	Chlorine	ug/L	303.2	23.3	9.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jan. 9/86	Nitrate	ug/L	10	7	7
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	460	350	360
"	TDP	ug/L	12	10	9
"	DIC	uM/L	1720	1730	1660
"	DOC	uM/L	730	590	580

Date	Cations				
Jan. 9/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	9.7	2.4	2.3
"	Iron	ug/L	76	59	59
"	Aluminium	ug/L	3.7	3.0	3.8
"	Copper	ug/L	0.5	0.2	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Jan. 9/86	Susp.C	ug/L	220	190	180
"	Susp.N	ug/L	30	24	23
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	30	17	17
"	CO2	uM/L	50.1	72.0	32.9
"	pH		7.86	7.70	8.03
"	Conduct.	uS/cm	170	172	171
"	Chlorine	ug/L	260.6	25.9	9.5

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jan.16/86	Nitrate	ug/L	11	7	8
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	450	350	400
"	TDP	ug/L	14	12	12
"	DIC	uM/L	1660	1650	1570
"	DOC	uM/L	670	570	550
Date	Cations				
Jan.16/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	7.3	1.8	1.7
"	Iron	ug/L	79	60	60
"	Aluminium	ug/L	6.4	6.1	13.0
"	Copper	ug/L	0.5	0.3	0.3
"	Zinc	ug/L	<0.1	<0.1	<0.1
Date	Other Constituents				
Jan.16/86	Susp.C	ug/L	194	158	162
"	Susp.N	ug/L	16	11	12
"	Susp.P	ug/L	3	2	2
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	29	15	15
"	CO2	uM/L	36.0	33.0	20.0
"	pH		7.99	8.02	8.23
"	Conduct.	uS/cm	161	164	164
"	Chlorine	ug/L	430.9	22.4	5.9

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jan.23/86	Nitrate	ug/L	11	9	9
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	30	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	450	360	380
"	TDP	ug/L	16	15	14
"	DIC	uM/L	1660	1660	1600
"	DOC	uM/L	720	570	580
Date	Cations				
Jan.23/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	4.9	1.6	1.5
"	Iron	ug/L	72	58	58
"	Aluminium	ug/L	7.0	13.0	14.0
"	Copper	ug/L	0.6	0.3	0.3
"	Zinc	ug/L	0.2	<0.1	0.1
Date	Other Constituents				
Jan.23/86	Susp.C	ug/L	164	148	156
"	Susp.N	ug/L	19	17	18
"	Susp.P	ug/L	3	2	2
"	TSS	mg/L	**	<1	<1
"	Susp.Fe	ug/L	23	14	16
"	CO2	uM/L	28.0	24.0	18.0
"	pH		8.10	8.17	8.27
"	Conduct.	uS/cm	172	173	173
"	Chlorine	ug/L	483.6	24.7	7.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jan.30/86	Nitrate	ug/L	2	1	1
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	480	360	370
"	TDP	ug/L	15	12	12
"	DIC	uM/L	1680	1680	1600
"	DOC	uM/L	700	590	590
Date	Cations				
Jan.30/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	4.2	1.5	1.4
"	Iron	ug/L	61	50	50
"	Aluminium	ug/L	5.4	7.2	12.0
"	Copper	ug/L	0.6	0.3	0.3
"	Zinc	ug/L	0.2	0.1	<0.1
Date	Other Constituents				
Jan.30/86	Susp.C	ug/L	170	140	160
"	Susp.N	ug/L	20	18	19
"	Susp.P	ug/L	3	1	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	18	12	13
"	CO2	uM/L	34.0	35.0	26.0
"	pH		8.02	8.01	8.12
"	Conduct.	uS/cm	174	175	174
"	Chlorine	ug/L	515.0	28.1	7.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Feb. 6/86	Nitrate	ug/L	18	13	22
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	30	30	90
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	460	440	440
"	TDP	ug/L	14	17	14
"	DIC	uM/L	1680	1660	1600
"	DOC	uM/L	700	560	560

Date	Cations				
Feb. 6/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.8	1.3	1.3
"	Iron	ug/L	55	43	44
"	Aluminium	ug/L	3.8	3.6	3.6
"	Copper	ug/L	0.6	0.2	0.2
"	Zinc	ug/L	0.1	0.1	<0.1

Date	Other Constituents				
Feb. 6/86	Susp.C	ug/L	160	140	150
"	Susp.N	ug/L	19	18	18
"	Susp.P	ug/L	<1	<1	<1
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	16	11	11
"	CO2	uM/L	32.0	33.0	21.0
"	pH		8.02	8.03	8.22
"	Conduct.	uS/cm	176	175	175
"	Chlorine	ug/L	514.2	26.6	7.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Feb.13/86	Nitrate	ug/L	24	12	12
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	460	400	370
"	TDP	ug/L	15	14	13
"	DIC	uM/L	1750	1800	1670
"	DOC	uM/L	760	600	590

Date	Cations				
Feb.13/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	4.2	1.3	1.3
"	Iron	ug/L	52	42	38
"	Aluminium	ug/L	5.8	4.7	5.0
"	Copper	ug/L	0.6	0.2	0.3
"	Zinc	ug/L	<0.1	0.2	<0.1

Date	Other Constituents				
Feb.13/86	Susp.C	ug/L	170	160	160
"	Susp.N	ug/L	21	19	19
"	Susp.P	ug/L	3	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	17	12	10
"	CO2	uM/L	28.0	28.0	32.0
"	pH		8.13	8.13	8.05
"	Conduct.	uS/cm	175	176	175
"	Chlorine	ug/L	541.7	27.5	8.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Feb.20/86	Nitrate	ug/L	31	17	19
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	20	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	480	390	380
"	TDP	ug/L	13	11	12
"	DIC	uM/L	1620	1710	1690
"	DOC	uM/L	680	570	550

Date	Cations				
Feb.20/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.3	1.2	1.2
"	Iron	ug/L	52	40	37
"	Aluminium	ug/L	3.9	5.5	5.4
"	Copper	ug/L	0.6	0.3	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Feb.20/86	Susp.C	ug/L	160	150	150
"	Susp.N	ug/L	19	20	19
"	Susp.P	ug/L	2	3	2
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	16	10	10
"	CO2	uM/L	55.0	43.0	34.0
"	pH		7.79	7.93	8.02
"	Conduct.	uS/cm	176	178	178
"	Chlorine	ug/L	409.3	26.8	8.3

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Feb.27/86	Nitrate	ug/L	38	25	26
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	500	380	370
"	TDP	ug/L	15	12	14
"	DIC	uM/L	1710	1650	1640
"	DOC	uM/L	660	540	520

Date	Cations				
Feb.27/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.4	0.8	1.0
"	Iron	ug/L	50	34	34
"	Aluminium	ug/L	3.5	5.5	5.4
"	Copper	ug/L	0.5	0.2	0.2
"	Zinc	ug/L	0.1	0.1	<0.1

Date	Other Constituents				
Feb.27/86	Susp.C	ug/L	***	***	***
"	Susp.N	ug/L	**	**	**
"	Susp.P	ug/L	3	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	19	12	14
"	CO2	uM/L	41.0	37.0	24.0
"	pH		7.95	7.98	8.16
"	Conduct.	uS/cm	177	179	178
"	Chlorine	ug/L	534.6	18.8	3.1

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Mar. 6/86	Nitrate	ug/L	39	46	46
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	30	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	490	450	450
"	TDP	ug/L	15	10	11
"	DIC	uM/L	1580	1600	1590
"	DOC	uM/L	730	560	550

Date	Cations				
Mar. 6/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.1	1.0	0.9
"	Iron	ug/L	52	34	34
"	Aluminium	ug/L	7.2	9.3	11.0
"	Copper	ug/L	0.5	0.4	0.2
"	Zinc	ug/L	0.4	0.4	0.2

Date	Other Constituents				
Mar. 6/86	Susp.C	ug/L	156	198	182
"	Susp.N	ug/L	19	21	21
"	Susp.P	ug/L	3	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	19	12	12
"	CO2	uM/L	35.0	33.0	25.0
"	pH		7.98	8.01	8.13
"	Conduct.	uS/cm	176	177	177
"	Chlorine	ug/L	510.4	16.4	3.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Mar.13/86	Nitrate	ug/L	40	56	56
"	Nitrite	ug/L	<1	1	2
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	470	430	420
"	TDP	ug/L	13	11	11
"	DIC	uM/L	1550	1630	1550
"	DOC	uM/L	650	550	520
Date	Cations				
Mar.13/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.2	0.7	3.8
"	Iron	ug/L	48	32	47
"	Aluminium	ug/L	8.8	13.0	15.0
"	Copper	ug/L	0.6	0.2	0.2
"	Zinc	ug/L	0.2	0.1	0.2
Date	Other Constituents				
Mar.13/86	Susp.C	ug/L	144	170	442
"	Susp.N	ug/L	18	20	67
"	Susp.P	ug/L	3	3	5
"	TSS	mg/L	<1	<1	1
"	Susp.Fe	ug/L	18	11	27
"	CO2	uM/L	35.0	34.0	24.0
"	pH		7.97	8.01	8.13
"	Conduct.	uS/cm	187	187	187
"	Chlorine	ug/L	407.7	18.6	3.7

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Mar.20/86	Nitrate	ug/L	40	61	63
"	Nitrite	ug/L	<1	1	2
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	480	410	420
"	TDP	ug/L	15	11	11
"	DIC	uM/L	1590	1560	1540
"	DOC	uM/L	700	510	510
Date	Cations				
Mar.20/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	2.8	0.7	0.8
"	Iron	ug/L	40	32	31
"	Aluminium	ug/L	4.0	5.1	5.8
"	Copper	ug/L	0.6	0.2	0.2
"	Zinc	ug/L	0.2	0.1	<0.1
Date	Other Constituents				
Mar.20/86	Susp.C	ug/L	180	220	220
"	Susp.N	ug/L	18	21	21
"	Susp.P	ug/L	3	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	18	11	12
"	CO2	uM/L	44.0	42.0	33.0
"	pH		7.88	7.89	7.99
"	Conduct.	uS/cm	186	186	186
"	Chlorine	ug/L	515.2	17.7	3.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Mar.27/85	Nitrate	ug/L	39	68	68
"	Nitrite	ug/L	<1	<1	1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	450	390	400
"	TDP	ug/L	14	11	11
"	DIC	uM/L	1500	1550	1540
"	DOC	uM/L	640	510	530
Date	Cations				
Mar.27/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	2.8	0.5	0.5
"	Iron	ug/L	48	32	34
"	Aluminium	ug/L	5.9	5.5	4.4
"	Copper	ug/L	0.7	0.2	0.2
"	Zinc	ug/L	0.2	<0.1	<0.1
Date	Other Constituents				
Mar.27/86	Susp.C	ug/L	190	190	170
"	Susp.N	ug/L	20	20	20
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	<1	<1	<1
"	Susp.Fe	ug/L	18	10	11
"	CO2	uM/L	36.0	43.0	26.0
"	pH		7.94	7.88	8.10
"	Conduct.	uS/cm	184	185	185
"	Chlorine	ug/L	511.5	16.2	3.5

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Apr. 3/86	Nitrate	ug/L	34	66	66
"	Nitrite	ug/L	1	2	3
"	Ammonia	ug/L	10	30	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	440	390	410
"	TDP	ug/L	13	10	11
"	DIC	uM/L	1540	1600	1570
"	DOC	uM/L	630	500	510

Date	Cations				
Apr. 3/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	2.6	0.6	0.6
"	Iron	ug/L	50	36	37
"	Aluminium	ug/L	6.8	5.7	6.2
"	Copper	ug/L	0.6	0.2	0.2
"	Zinc	ug/L	0.1	<0.1	<0.1

Date	Other Constituents				
Apr. 3/86	Susp.C	ug/L	180	160	160
"	Susp.N	ug/L	26	28	32
"	Susp.P	ug/L	4	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	17	10	11
"	CO2	uM/L	49.0	61.0	30.0
"	pH		7.82	7.74	8.04
"	Conduct.	uS/cm	188	183	182
"	Chlorine	ug/L	438.4	14.8	3.3

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Apr.10/86	Nitrate	ug/L	16	67	66
"	Nitrite	ug/L	<1	4	5
"	Ammonia	ug/L	10	30	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	420	390	380
"	TDP	ug/L	12	10	10
"	DIC	uM/L	1470	1540	1500
"	DOC	uM/L	650	490	490
Date	Cations				
Apr.10/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	4.4	0.8	7.7
"	Iron	ug/L	60	39	73
"	Aluminium	ug/L	7.8	6.5	12.0
"	Copper	ug/L	0.8	0.2	0.3
"	Zinc	ug/L	0.3	<0.1	0.1
Date	Other Constituents				
Apr.10/86	Susp.C	ug/L	210	160	210
"	Susp.N	ug/L	51	50	68
"	Susp.P	ug/L	6	3	6
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	2	11	27
"	CO2	uM/L	25.0	25.0	21.0
"	pH		8.10	8.11	8.18
"	Conduct.	uS/cm	175	177	178
"	Chlorine	ug/L	479.2	8.19	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Apr.17/86	Nitrate	ug/L	7	63	65
"	Nitrite	ug/L	<1	3	4
"	Ammonia	ug/L	20	40	40
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	370	390	380
"	TDP	ug/L	13	12	12
"	DIC	uM/L	1470	1440	1450
"	DOC	uM/L	600	480	490

Date	Cations				
Apr.17/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	14.0	*.*	3.6
"	Iron	ug/L	95	**	50
"	Aluminium	ug/L	12.0	*.*	10.0
"	Copper	ug/L	0.9	*.*	0.5
"	Zinc	ug/L	0.3	*.*	0.3

Date	Other Constituents				
Apr.17/86	Susp.C	ug/L	340	190	170
"	Susp.N	ug/L	49	25	24
"	Susp.P	ug/L	7	4	5
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	45	13	13
"	CO2	uM/L	30.0	29.0	24.0
"	pH		8.02	8.02	8.11
"	Conduct.	uS/cm	173	174	174
"	Chlorine	ug/L	376.5	7.7	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Apr.24/86	Nitrate	ug/L	3	58	59
"	Nitrite	ug/L	<1	5	5
"	Ammonia	ug/L	20	30	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	430	440	420
"	TDP	ug/L	15	13	13
"	DIC	uM/L	1540	1560	1510
"	DOC	uM/L	630	520	510
Date	Cations				
Apr.24/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	9.2	1.0	1.0
"	Iron	ug/L	89	38	39
"	Aluminium	ug/L	14.0	6.8	6.6
"	Copper	ug/L	0.6	0.2	0.2
"	Zinc	ug/L	0.2	<0.1	<0.1
Date	Other Constituents				
Apr.24/86	Susp.C	ug/L	470	190	180
"	Susp.N	ug/L	62	26	24
"	Susp.P	ug/L	8	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	59	16	16
"	CO2	uM/L	30.0	37.0	24.0
"	pH		8.04	7.95	8.12
"	Conduct.	uS/cm	175	177	176
"	Chlorine	ug/L	321.3	8.7	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
May. 1/86	Nitrate	ug/L	5	61	75
"	Nitrite	ug/L	<1	9	7
"	Ammonia	ug/L	10	30	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	410	400	430
"	TDP	ug/L	16	13	13
"	DIC	uM/L	1670	1700	1700
"	DOC	uM/L	780	590	570

Date	Cations				
May. 1/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	13.0	1.7	1.5
"	Iron	ug/L	99	34	33
"	Aluminium	ug/L	21.0	7.2	7.5
"	Copper	ug/L	0.7	0.2	0.5
"	Zinc	ug/L	0.2	<0.1	0.3

Date	Other Constituents				
May. 1/86	Susp.C	ug/L	660	290	240
"	Susp.N	ug/L	84	41	35
"	Susp.P	ug/L	11	5	4
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	76	18	15
"	CO2	uM/L	38.0	40.0	29.0
"	pH		7.97	7.96	8.09
"	Conduct.	uS/cm	175	178	180
"	Chlorine	ug/L	414.6	15.5	2.4

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
May. 8/86	Nitrate	ug/L	<1	25	26
"	Nitrite	ug/L	<1	7	8
"	Ammonia	ug/L	20	30	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	390	380	400
"	TDP	ug/L	20	16	16
"	DIC	uM/L	1680	1680	1710
"	DOC	uM/L	610	510	480

Date	Cations				
May. 8/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	14.0	1.1	0.9
"	Iron	ug/L	94	42	31
"	Aluminium	ug/L	18.0	4.6	5.0
"	Copper	ug/L	0.7	0.2	0.3
"	Zinc	ug/L	0.3	<0.1	<0.1

Date	Other Constituents				
May. 8/86	Susp.C	ug/L	620	160	140
"	Susp.N	ug/L	89	23	22
"	Susp.P	ug/L	9	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	65	10	10
"	CO2	uM/L	27.0	43.0	24.0
"	pH		8.12	7.92	8.19
"	Conduct.	uS/cm	174	174	175
"	Chlorine	ug/L	310.9	10.5	1.2

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
May.15/86	Nitrate	ug/L	3	57	67
"	Nitrite	ug/L	<1	11	1
"	Ammonia	ug/L	10	30	40
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	420	410	510
"	TDP	ug/L	27	16	26
"	DIC	uM/L	1650	1660	1610
"	DOC	uM/L	640	480	490
Date	Cations				
May.15/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	14.0	1.6	1.6
"	Iron	ug/L	87	32	28
"	Aluminium	ug/L	21.0	7.8	5.5
"	Copper	ug/L	0.8	0.3	0.4
"	Zinc	ug/L	0.2	0.1	0.1
Date	Other Constituents				
May.15/86	Susp.C	ug/L	620	180	160
"	Susp.N	ug/L	73	25	22
"	Susp.P	ug/L	7	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	61	12	9
"	CO2	uM/L	24.0	23.0	21.0
"	pH		8.16	8.19	8.21
"	Conduct.	uS/cm	168	170	170
"	Chlorine	ug/L	248.6	9.2	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
May.29/86	Nitrate	ug/L	3	92	93
"	Nitrite	ug/L	<1	4	4
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	450	460	430
"	TDP	ug/L	22	23	18
"	DIC	uM/L	1450	1550	1420
"	DOC	uM/L	590	560	520
Date	Cations				
May,29/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	26.0	2.2	2.3
"	Iron	ug/L	71	38	35
"	Aluminium	ug/L	13.0	4.1	4.9
"	Copper	ug/L	0.9	0.4	0.3
"	Zinc	ug/L	0.2	0.1	0.1
Date	Other Constituents				
May.29/86	Susp.C	ug/L	346	142	144
"	Susp.N	ug/L	44	18	19
"	Susp.P	ug/L	5	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	35	8	9
"	C02	uM/L	45.0	94.0	40.0
"	pH		7.83	7.53	7.88
"	Conduct.	uS/cm	164	165	165
"	Chlorine	ug/L	294.1	9.6	1.1

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jun. 5/86	Nitrate	ug/L	6	106	102
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	410	410	440
"	TDP	ug/L	33	18	17
"	DIC	uM/L	1480	1560	1490
"	DOC	uM/L	610	460	450

Date	Cations				
Jun. 5/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	10.0	2.0	2.1
"	Iron	ug/L	52	23	25
"	Aluminium	ug/L	14.0	3.0	3.6
"	Copper	ug/L	0.9	0.3	0.3
"	Zinc	ug/L	0.1	0.1	0.1

Date	Other Constituents				
Jun. 5/86	Susp.C	ug/L	330	164	188
"	Susp.N	ug/L	45	23	25
"	Susp.P	ug/L	5	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	28	7	7
"	CO2	uM/L	18.0	23.0	19.0
"	pH		8.24	8.17	8.22
"	Conduct.	uS/cm	168	170	170
"	Chlorine	ug/L	331.5	6.3	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jun.12/86	Nitrate	ug/L	6	98	102
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	30	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	390	480	410
"	TDP	ug/L	19	18	18
"	DIC	uM/L	1470	1480	1440
"	DOC	uM/L	620	490	460

Date	Cations				
Jun.12/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	13.0	2.4	2.5
"	Iron	ug/L	42	22	20
"	Aluminium	ug/L	13.0	4.1	3.5
"	Copper	ug/L	1.0	0.3	0.4
"	Zinc	ug/L	0.2	<0.1	0.1

Date	Other Constituents				
Jun.12/86	Susp.C	ug/L	320	170	170
"	Susp.N	ug/L	39	23	NS
"	Susp.P	ug/L	6	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	24	7	7
"	CO2	uM/L	27.0	34.0	24.0
"	pH		8.06	7.97	8.11
"	Conduct.	uS/cm	160	162	162
"	Chlorine	ug/L	533.5	64.3	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jun.19/86	Nitrate	ug/L	61	64	<1
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	10	<10
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	380	420	430
"	TDP	ug/L	20	18	22
"	DIC	uM/L	1170	1240	1230
"	DOC	uM/L	450	490	590

Date	Cations				
Jun.19/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	3.2	3.2	14.0
"	Iron	ug/L	26	25	49
"	Aluminium	ug/L	4.8	4.5	13.0
"	Copper	ug/L	0.2	0.3	1.0
"	Zinc	ug/L	<0.1	<0.1	0.2

Date	Other Constituents				
Jun.19/86	Susp.C	ug/L	NS	170	310
"	Susp.N	ug/L	NS	29	48
"	Susp.P	ug/L	3	3	6
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	8	7	27
"	CO2	uM/L	19.0	25.0	21.0
"	pH		8.11	8.03	8.09
"	Conduct.	uS/cm	159	161	161
"	Chlorine	ug/L	622.1	7.4	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jun.26/86	Nitrate	ug/L	7	97	97
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	440	430	420
"	TDP	ug/L	21	18	17
"	DIC	uM/L	1330	1550	1420
"	DOC	uM/L	710	570	590
Date	Cations				
Jun.26/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	9.4	2.0	2.0
"	Iron	ug/L	46	25	24
"	Aluminium	ug/L	14.0	6.2	13.0
"	Copper	ug/L	1.0	0.3	0.3
"	Zinc	ug/L	0.2	0.1	0.2
Date	Other Constituents				
Jun.26/86	Susp.C	ug/L	260	160	160
"	Susp.N	ug/L	34	22	22
"	Susp.P	ug/L	5	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	21	8	8
"	C02	uM/L	31.0	39.0	24.0
"	pH		7.96	7.92	8.10
"	Conduct.	uS/cm	162	164	164
"	Chlorine	ug/L	538.4	58.1	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jul. 3/86	Nitrate	ug/L	6	95	98
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	10
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	420	410	380
"	TDP	ug/L	21	17	17
"	DIC	uM/L	1480	1500	1290
"	DOC	uM/L	620	640	550
Date	Cations				
Jul. 3/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	10.0	2.1	3.0
"	Iron	ug/L	42	23	26
"	Aluminium	ug/L	10.0	4.3	4.6
"	Copper	ug/L	0.6	0.3	0.4
"	Zinc	ug/L	0.2	0.1	0.1
Date	Other Constituents				
Jul. 3/86	Susp.C	ug/L	280	140	160
"	Susp.N	ug/L	39	20	22
"	Susp.P	ug/L	5	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	23	7	9
"	C02	uM/L	39.0	74.0	24.0
"	pH		7.90	7.62	8.05
"	Conduct.	uS/cm	158	160	160
"	Chlorine	ug/L	443.2	54.2	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jul.10/86	Nitrate	ug/L	5	92	92
"	Nitrite	ug/L	<1	<1	1
"	Ammonia	ug/L	30	20	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	390	360	390
"	TDP	ug/L	19	16	17
"	DIC	uM/L	1400	1300	1290
"	DOC	uM/L	620	470	470

Date	Cations				
Jul.10/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	9.2	2.0	2.0
"	Iron	ug/L	48	25	22
"	Aluminium	ug/L	11.0	4.6	4.2
"	Copper	ug/L	1.0	0.3	0.3
"	Zinc	ug/L	0.1	0.1	<0.1

Date	Other Constituents				
Jul.10/86	Susp.C	ug/L	310	160	150
"	Susp.N	ug/L	44	24	23
"	Susp.P	ug/L	5	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	24	8	10
"	C02	uM/L	26.0	51.0	23.0
"	pH		8.06	7.73	8.08
"	Conduct.	uS/cm	158	159	158
"	Chlorine	ug/L	352.0	40.4	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jul.17/86	Nitrate	ug/L	7	88	88
"	Nitrite	ug/L	<1	<1	1
"	Ammonia	ug/L	20	10	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	450	390	400
"	TDP	ug/L	18	14	14
"	DIC	uM/L	1310	1490	1380
"	DOC	uM/L	720	540	500

Date	Cations				
Jul.17/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	10.0	1.7	1.7
"	Iron	ug/L	52	20	19
"	Aluminium	ug/L	8.5	3.3	4.1
"	Copper	ug/L	1.0	0.3	0.4
"	Zinc	ug/L	0.2	<0.1	0.4

Date	Other Constituents				
Jul.17/86	Susp.C	ug/L	430	160	170
"	Susp.N	ug/L	64	18	20
"	Susp.P	ug/L	7	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	32	7	8
"	CO2	uM/L	34.0	65.0	27.0
"	pH		7.91	7.68	8.03
"	Conduct.	uS/cm	158	160	161
"	Chlorine	ug/L	590.9	57.6	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jul.24/86	Nitrate	ug/L	8	94	78
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	40	50	40
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	460	420	440
"	TDP	ug/L	20	18	17
"	DIC	uM/L	1350	1260	1240
"	DOC	uM/L	660	690	600
Date	Cations				
Jul.24/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	12.0	2.6	4.2
"	Iron	ug/L	46	22	34
"	Aluminium	ug/L	10.0	5.2	9.1
"	Copper	ug/L	1.1	0.4	0.6
"	Zinc	ug/L	0.1	0.1	0.2
Date	Other Constituents				
Jul.24/86	Susp.C	ug/L	330	180	280
"	Susp.N	ug/L	57	32	49
"	Susp.P	ug/L	7	4	6
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	28	9	19
"	CO2	uM/L	99.0	36.0	33.0
"	pH		7.44	7.87	7.90
"	Conduct.	uS/cm	158	155	155
"	Chlorine	ug/L	363.9	80.1	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Jul.31/86	Nitrate	ug/L	12	100	104
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	40	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	460	430	430
"	TDP	ug/L	19	16	16
"	DIC	uM/L	1490	1540	1480
"	DOC	uM/L	750	560	520
Date	Cations				
Jul.31/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	15.0	2.7	4.2
"	Iron	ug/L	49	19	23
"	Aluminium	ug/L	9.5	4.9	3.9
"	Copper	ug/L	0.9	0.2	0.5
"	Zinc	ug/L	0.1	0.1	0.3
Date	Other Constituents				
Jul.31/86	Susp.C	ug/L	380	190	210
"	Susp.N	ug/L	58	24	31
"	Susp.P	ug/L	5	3	4
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	27	15	14
"	CO2	uM/L	28.0	29.0	24.0
"	pH		8.05	8.06	8.11
"	Conduct.	uS/cm	158	160	161
"	Chlorine	ug/L	367.2	8.8	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug. 7/86	Nitrate	ug/L	9	101	103
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	10
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	490	440	450
"	TDP	ug/L	17	16	17
"	DIC	uM/L	1470	1540	1430
"	DOC	uM/L	730	560	620

Date	Cations				
Aug. 7/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	18.0	3.4	3.7
"	Iron	ug/L	63	25	25
"	Aluminium	ug/L	7.7	4.3	4.3
"	Copper	ug/L	1.0	0.3	0.4
"	Zinc	ug/L	0.2	0.1	0.7

Date	Other Constituents				
Aug. 7/86	Susp.C	ug/L	430	200	210
"	Susp.N	ug/L	67	25	25
"	Susp.P	ug/L	7	3	4
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	37	9	9
"	CO2	uM/L	49.0	113	42.0
"	pH		7.80	7.44	7.86
"	Conduct.	uS/cm	160	160	160
"	Chlorine	ug/L	259.7	15.9	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug.14/86	Nitrate	ug/L	13	103	106
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	40	20	30
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	500	430	420
"	TDP	ug/L	21	15	16
"	DIC	uM/L	1540	1520	1450
"	DOC	uM/L	730	530	590

Date	Cations				
Aug.14/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	23	4.2	4.0
"	Iron	ug/L	73	28	28
"	Aluminium	ug/L	10	3.4	3.4
"	Copper	ug/L	NS	NS	NS
"	Zinc	ug/L	0.2	0.1	0.2

Date	Other Constituents				
Aug.14/86	Susp.C	ug/L	470	200	190
"	Susp.N	ug/L	80	31	30
"	Susp.P	ug/L	7	3	3
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	43	9	10
"	C02	uM/L	**.*	**.*	**.*
"	pH		8.05	7.97	8.09
"	Conduct.	uS/cm	158	161	160
"	Chlorine	ug/L	251.6	12.1	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug.21/86	Nitrate	ug/L	8	90	92
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	20	30	40
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	480	450	480
"	TDP	ug/L	18	15	16
"	DIC	uM/L	****	****	****
"	DOC	uM/L	***	***	***

Date	Cations				
Aug.21/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	21	3.3	3.2
"	Iron	ug/L	72	24	25
"	Aluminium	ug/L	7.4	3.6	2.8
"	Copper	ug/L	1.0	0.3	0.2
"	Zinc	ug/L	0.1	<0.1	<0.1

Date	Other Constituents				
Aug.21/86	Susp.C	ug/L	530	280	250
"	Susp.N	ug/L	89	41	39
"	Susp.P	ug/L	8	4	4
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	42	10	10
"	CO2	uM/L	**.*	**.*	**.*
"	pH		7.83	7.70	8.00
"	Conduct.	uS/cm	159	159	159
"	Chlorine	ug/L	252.0	15.0	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Aug.28/86	Nitrate	ug/L	10	86	87
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	530	460	470
"	TDP	ug/L	23	18	19
"	DIC	uM/L	****	****	****
"	DOC	uM/L	***	***	***

Date	Cations				
Aug.28/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	22	3.3	3.2
"	Iron	ug/L	74	26	25
"	Aluminium	ug/L	8.0	2.4	2.4
"	Copper	ug/L	0.8	0.2	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Aug.28/86	Susp.C	ug/L	570	250	240
"	Susp.N	ug/L	93	39	37
"	Susp.P	ug/L	9	4	4
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	47	8	8
"	CO2	uM/L	**.*	**.*	**.*
"	pH		7.84	7.51	7.95
"	Conduct.	uS/cm	162	163	162
"	Chlorine	ug/L	257.1	18.5	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sep. 4/86	Nitrate	ug/L	8	74	75
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	510	450	460
"	TDP	ug/L	18	14	17
"	DIC	uM/L	1380	1320	1290
"	DOC	uM/L	700	580	570

Date	Cations				
Sep. 4/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	24	5.1	4.9
"	Iron	ug/L	68	28	27
"	Aluminium	ug/L	7.8	3.0	3.4
"	Copper	ug/L	0.8	0.3	0.3
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Sep. 4/86	Susp.C	ug/L	600	260	290
"	Susp.N	ug/L	78	33	32
"	Susp.P	ug/L	10	5	5
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	**	**	**
"	CO2	uM/L	**.*	**.*	**.*
"	pH		8.06	7.96	8.16
"	Conduct.	uS/cm	160	162	162
"	Chlorine	ug/L	397.2	79.3	<1.0

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sep.11/86	Nitrate	ug/L	11	84	86
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	10	10
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	520	450	460
"	TDP	ug/L	17	17	17
"	DIC	uM/L	1220	1260	1250
"	DOC	uM/L	740	520	530

Date	Cations				
Sep.11/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	23	4.0	3.8
"	Iron	ug/L	68	24	24
"	Aluminium	ug/L	9.2	4.0	3.6
"	Copper	ug/L	0.8	0.2	0.2
"	Zinc	ug/L	<0.1	<0.1	<0.1

Date	Other Constituents				
Sep.11/86	Susp.C	ug/L	620	220	230
"	Susp.N	ug/L	76	25	24
"	Susp.P	ug/L	11	5	5
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	**	**	**
"	CO2	uM/L	**.*	**.*	**.*
"	pH		8.15	8.09	8.18
"	Conduct.	uS/cm	159	161	161
"	Chlorine	ug/L	***.*	**.*	<*.*

Concentration of Metals (Cations), Anions and Other Constituents in FWI Water Supply.

Date	Anions		Station 1	Station 4	Station 9
Sep.18/86	Nitrate	ug/L	7	67	68
"	Nitrite	ug/L	<1	<1	<1
"	Ammonia	ug/L	10	30	20
"	Chloride	mg/L	**.*	**.*	**.*
"	Sulphate	mg/L	**.*	**.*	**.*
"	TDN	ug/L	510	450	450
"	TDP	ug/L	17	15	16
"	DIC	uM/L	980	1000	900
"	DOC	uM/L	710	570	540
Date	Cations				
Sep.18/86	Sodium	mg/L	*.**	*.**	*.**
"	Potassium	mg/L	*.**	*.**	*.**
"	Calcium	mg/L	**.*	**.*	**.*
"	Magnesium	mg/L	*.**	*.**	*.**
"	Manganese	ug/L	22	5.6	6.2
"	Iron	ug/L	69	31	33
"	Aluminium	ug/L	9.0	5.0	6.1
"	Copper	ug/L	0.8	0.2	0.5
"	Zinc	ug/L	0.1	<0.1	<0.1
Date	Other Constituents				
Sep.18/86	Susp.C	ug/L	***	***	***
"	Susp.N	ug/L	**	**	**
"	Susp.P	ug/L	10	5	6
"	TSS	mg/L	**	**	**
"	Susp.Fe	ug/L	**	**	**
"	CO2	uM/L	**.*	**.*	**.*
"	pH		8.16	8.13	8.20
"	Conduct.	uS/cm	162	163	163
"	Chlorine	ug/L	***.*	**.*	<*.*

Appendix 2. Daily chlorine concentrations.

Chlorine values

sample site	abs. reading	blank	ug/L
14/08/85			
1 (AM)	.284	.028	288.1
2	.073	.003	99.0
3	.032	.002	58.4
15/08/85			
1 (AM)	.443	.011	467.0
2	.191	.006	215.9
3	.004	.004	27.9
16/08/85			
1 (AM)	.503	.009	530.0
2	.222	.004	249.5
3	.003	.003	27.9
19/08/85			
1 (AM)	.444	.009	470.0
2	.247	.002	276.9
3	.001	.002	26.9
21/08/85			
1 (AM)	.370	.016	387.7
2	.288	.003	317.6
3	.695	.029	84.8
4	.096	.030	7.7
5	.028	.023	0
6	.029	.022	.2
7	.089	.069	1.8
8	.020	.020	0
9 (AM)	.026	.024	0
10	.026	.024	0
22/08/85			
1 (AM)	.600	.021	616.4
4	.096	.036	7.0
9 (AM)	.031	.024	.2
29/08/85			
1 (AM)	.502	.005	533.0
4	.128	.028	12.1
9 (AM)	.048	.042	.03
30/08/85			
9 (AM)	.111	.042	8.1

Chlorine values

sample site	abs. reading	blank	ug/L
3/09/85			
9 (AM)	.032	.0185	.99
4/09/85			
9 (AM)	.05	.022	2.9
5/09/85			
1 (AM)	.449	.010	474.1
4	.131	.021	13.4
9 (AM)	.018	.017	0
6/09/85			
9 (AM)	.058	.0265	3.3
9/09/85			
9 (AM)	.047	.021	2.6
9 (PM)	.064	.026	4.1
10/09/85			
9 (AM)	.040	.018	2.1
9 (PM)	.048	.020	2.9
11/09/85			
9 (AM)	.040	.019	2.0
9 (PM)	.038	.017	2.0
12/09/85			
1 (AM)	.466	.012	489.3
4	.080	.021	6.8
9 (AM)	.056	.028	2.9
9 (PM)	.038	.018	1.8
ANNEX (PM)	.044	.024	1.8
13/09/85			
9 (AM)	.035	.016	1.7
9 (PM)	.054	.026	2.9
ANNEX (PM)	.061	.031	3.1

Chlorine values

	sample site	abs. reading	blank	ug/L
16/09/85				
	9 (AM)	.043	.017	2.6
	9 (PM)	.064	.024	4.4
	ANNEX (PM)	.069	.030	4.3
17/09/85				
	9 (AM)	.063	.021	4.7
	9 (PM)	.056	.022	3.6
	ANNEX (PM)	.058	.026	3.4
18/09/85				
	9 (AM)	.048	.0217	2.7
	9 (PM)	.073	.026	5.3
	ANNEX (PM)	.078	.032	5.2
19/09/85				
	1 (AM)	.284	.006	310.4
	4	.102	.028	8.8
	9 (AM)	.074	.022	5.9
	9 (PM)1540hrs	.309	.033	34.7
	ANNEX (PM)	.363	.040	40.8
	4 (1610 hrs)	.182	.028	19.0
	1640 hrs	.162	.031	16.1
	1826 hrs	.070	.024	5.2
20/09/85				
	9 (AM)	.054	.021	3.5
	9 (PM)	.048	.020	2.9
	ANNEX (PM)	.053	.026	2.7
23/09/85				
	9 (AM)	.038	.019	1.7
	9 (PM)	.044	.019	2.5
	ANNEX (PM)	.047	.024	2.2
24/09/85				
	9 (AM)	.039	.018	2.0
	9 (PM)	.063	.026	4.0
	ANNEX (PM)	.070	.032	4.1
25/09/85				
	9 (AM)	.020	.019	0.0
	9 (PM)	.019	.019	0.0
	ANNEX (PM)	.024	.024	0.0
26/09/85				
	1 (AM)	.322	.014	340.9
	4	.100	.024	9.0
	9 (AM)	.019	.018	0.0
	9 (PM)	.054	.017	5.0
	ANNEX (PM)	.056	.022	4.6
27/09/85				
	9 (AM)	.017	.016	0.6
	9 (PM)	.016	.016	0.5
	ANNEX (PM)	.023	.022	0.6

Chlorine values

sample site		abs. reading	blank	ug/L
30/09/85				
	1 (AM)	.313	.006	327.5
	9 (AM)	.017	.016	0.6
	1 (PM)	.467	.004	485.0
	9 (PM)	.020	.018	0.7
1/10/85				
	1 (AM)	.313	.005	328.5
	9 (AM)	.020	.018	0.7
	1 (PM)	.459	.007	473.9
	9 (PM)	.074	.023	6.7
2/10/85				
	1 (AM)	.378	.006	393.1
	4	.183	.023	20.1
	9 (AM)	.078	.019	7.7
	1 (PM)	.470	.008	484.0
	9 (PM)	.071	.024	6.2
3/10/85				
	1 (AM)	.363	.007	377.0
	4	.119	.023	12.2
	9 (AM)	.038	.019	2.8
	1 (PM)	.522	.009	535.5
	9 (PM)	.024	.021	0.8
4/10/85				
	1 (AM)	.459	.006	474.9
	9 (AM)	.048	.040	1.4
	1 (PM)	.455	.006	470.9
	9 (PM)	.069	.052	2.6
7/10/85				
	1 (AM)	.370	.018	371.9
	9 (AM)	.019	.012	1.3
	1 (PM)	.510	.028	504.2
	9 (PM)	.051	.016	4.8
8/10/85				
	1 (AM)	.425	.039	407.3
	9 (AM)	.033	.020	2.1
	1 (PM)	.503	.046	479.0
	9 (PM)	.030	.022	1.4
9/10/85				
	1 (AM)	.365	.070	315.4
	9 (AM)	.031	.021	1.7
	1 (PM)	.538	.091	468.9
	9 (PM)	.032	.020	1.9
10/10/85				
	1 (AM)	.494	.166	348.7
	4	.137	.022	14.6
	9 (AM)	.028	.020	1.4
	1 (PM)	.635	.170	487.1
	9 (PM)	.070	.030	5.4
11/10/85				
	1 (AM)	.615	.272	363.9
	9 (AM)	.063	.023	5.4
	1 (PM)	.460	.006	475.9
	9 (PM)	.065	.022	5.7

Chlorine values

sample site	abs. reading	blank	ug/L
15/10/85			
1 (AM)	.402	.004	419.4
9 (AM)	.061	.021	5.4
1 (PM)	.560	.008	574.9
9 (PM)	.071	.031	5.4
16/10/85			
1 (AM)	.530	.006	546.6
9 (AM)	.061	.023	5.1
1 (PM)	.629	.006	646.6
9 (PM)	.058	.023	4.8
17/10/85			
1 (AM)	.582	.005	600.1
4	.203	.028	21.9
9 (AM)	.066	.026	5.4
1 (PM)	.739	.005	785.7
9 (PM)	.060	.026	5.4
18/10/85			
1 (AM)	.642	.012	653.7
9 (AM)	.069	.035	4.6
1 (PM)	.669	.007	688.7
9 (PM)	.078	.030	5.7
21/10/85			
1 (AM)	.570	.007	587.4
9 (AM)	.074	.026	5.7
1 (PM)	.713	.005	735.7
9 (PM)	.080	.030	6.0
22/10/85			
1 (AM)	.675	.006	695.8
9 (AM)	.074	.029	5.4
1 (PM)	.700	.007	720.4
9 (PM)	.077	.030	5.6
23/10/85			
1 (AM)	.628	.005	648.7
9 (AM)	.077	.029	5.7
1 (PM)	.653	.006	673.3
9 (PM)	.075	.030	5.4
24/10/85			
1 (AM)	.513	.006	530.1
4	.202	.037	20.1
9 (AM)	.074	.031	5.1

Chlorine values

sample site	abs. reading	blank	ug/L
28/10/85			
1 (AM)	.800	.006	829.7
9 (AM)	.082	.028	4.5
1 (PM)	.660	.007	686.4
9 (PM)	.090	.031	5.1
29/10/85			
1 (AM)	.496	.006	520.7
9 (AM)	.077	.028	4.0
1 (PM)	.540	.008	563.4
9 (PM)	.076	.028	3.9
30/10/85			
1 (AM)	.438	.008	459.7
9 (AM)	.074	.029	3.6
1 (PM)	.492	.009	513.6
9 (PM)	.073	.029	3.5
31/10/85			
1 (AM)	.485	.007	508.5
4	.202	.033	16.7
9 (AM)	.089	.033	4.8
1 (PM)	.489	.005	514.6
9 (PM)	.077	.028	4.0
1/11/85			
1 (AM)	.532	.005	558.3
9 (AM)	.080	.021	5.1
1 (PM)	.480	.006	504.4
9 (PM)	.123	.028	8.9
4/11/85			
1 (AM)	.514	.008	536.9
9 (AM)	.070	.022	3.9
1 (PM)	.565	.007	589.8
9 (PM)	.137	.025	10.7
5/11/85			
1 (AM)	.474	.006	498.3
9 (AM)	.130	.025	9.9
1 (PM)	.478	.006	502.4
9 (PM)	.148	.023	12.0
7/11/85			
1 (AM)	.435	.006	458.7
4	.201	.031	16.8
9 (AM)	.080	.022	5.0
1 (PM)	.541	.006	566.4
9 (PM)	.187	.024	16.1
8/11/85			
1 (AM)	.485	.007	508.5
9 (AM)	.140	.026	10.9
1 (PM)	.530	.006	555.2
9 (PM)	.158	.041	11.2

Chlorine values

sample site	abs. reading	blank	ug/L
12/11/85			
1 (AM)	.544	.006	569.5
9 (AM)	.160	.026	13.0
1 (PM)	.600	.006	626.4
9 (PM)	.105	.023	7.5
13/11/85			
1 (AM)	.540	.004	567.4
9 (AM)	.125	.024	9.5
1 (PM)	.675	.005	703.7
9 (PM)	.222	.024	19.8
14/11/85			
1 (AM)	.523	.007	547.1
4	.340	.030	31.6
9 (AM)	.131	.021	10.5
1 (PM)	.610	.004	638.6
9 (PM)	.206	.013	19.2
15/11/85			
1 (AM)	.530	.006	555.2
9 (AM)	.143	.024	11.4
1 (PM)	.605	.009	628.4
9 (PM)	.141	.036	9.9
19/11/85			
1 (AM)	.530	.008	553.2
9 (AM)	.087	.025	5.4
1 (PM)	.639	.008	664.0
9 (PM)	.098	.027	6.3
20/11/85			
1 (AM)	.656	.005	684.3
9 (AM)	.089	.023	5.8
1 (PM)	.640	.004	669.1
9 (PM)	.096	.023	6.6
21/11/85			
1 (AM)	.628	.006	654.9
4	.313	.037	28.0
9 (AM)	.096	.026	6.2
1 (PM)	.620	.006	646.7
9 (PM)	.121	.028	8.7
22/11/85			
1 (AM)	.524	.006	549.1
9 (AM)	.111	.025	7.9
1 (PM)	.643	.004	672.1
9 (PM)	.097	.027	6.2

Chlorine values

sample site	abs. reading	blank	ug/L
25/11/85			
1 (AM)	.480	.004	506.4
9 (AM)	.101	.023	7.1
1 (PM)	.578	.005	605.1
9 (PM)	.117	.024	8.7
26/11/85			
1 (AM)	.447	.005	471.9
9 (AM)	.098	.023	6.8
1 (PM)	.575	.007	600.0
9 (PM)	.107	.024	7.6
27/11/85			
1 (AM)	.418	.005	442.4
9 (AM)	.103	.021	7.5
1 (PM)	.539	.010	560.3
9 (PM)	.116	.022	8.8
28/11/85			
1 (AM)	.396	.004	421.0
4	.290	.027	26.6
9 (AM)	.108	.023	7.8
1 (PM)	.512	.005	538.0
9 (PM)	.131	.028	9.7
29/11/85			
1 (AM)	.345	.006	367.2
9 (AM)	.102	.023	7.2
1 (PM)	.452	.003	479.0
9 (PM)	.137	.031	10.0
2/12/85			
1 (AM)	.343	.006	367.2
9 (AM)	.178	.032	14.3
1 (PM)	.500	.004	530.6
9 (PM)	.169	.033	13.2
3/12/85			
1 (AM)	.470	.004	499.7
9 (AM)	.173	.029	14.1
1 (PM)	.645	.005	678.6
9 (PM)	.178	.029	14.6
4/12/85			
1 (AM)	.613	.006	644.7
9 (AM)	.202	.033	16.7
1 (PM)	.708	.007	741.3
9 (PM)	.220	.029	19.1
5/12/85			
1 (AM)	.438	.007	463.8
4	.393	.030	37.3
9 (AM)	.211	.032	17.8
1 (PM)	.461	.004	490.5
9 (PM)	.209	.026	18.2
6/12/85			
1 (AM)	.317	.006	340.4
9 (AM)	.203	.028	17.4
1 (PM)	.400	.004	427.8
9 (PM)	.205	.028	17.6

Chlorine values

sample site		abs. reading	blank	ug/L
9/12/85				
	1 (AM)	.116	.003	136.9
	9 (AM)	.168	.025	13.9
	1 (PM)	.270	.003	295.2
	9 (PM)	.137	.028	10.3
10/12/85				
	1 (AM)	.206	.003	229.4
	9 (AM)	.157	.026	12.7
	1 (PM)	.299	.003	325.0
	9 (PM)	.145	.029	11.1
11/12/85				
	1 (AM)	.191	.008	208.9
	9 (AM)	.128	.026	9.6
	1 (PM)	.287	.005	310.6
	9 (PM)	.131	.025	10.0
12/12/85				
	1 (AM)	.176	.004	197.6
	4	.303	.022	28.6
	9 (AM)	.127	.022	9.9
	1 (PM)	.280	.004	304.5
	9 (PM)	.138	.026	10.6
13/12/85				
	1 (AM)	.161	.008	178.0
	3 (AM)	.074	.005	91.7
	9 (AM)	.131	.024	10.1
	1 (PM)	.292	.004	316.8
	3 (PM)	.118	.006	135.9
	9 (PM)	.139	.025	10.9

Chlorine values

sample site	abs. reading	blank	ug/L
16/12/85			
1 (AM)	.145	.011	158.5
3 (AM)	.082	.006	98.9
4 (AM)	.347	.024	33.1
9 (AM)	.173	.023	14.7
1 (PM)	.283	.004	307.5
3 (PM)	.121	.006	139.0
4 (PM)	.302	.025	28.2
9 (PM)	.138	.024	10.9
18/12/85			
1 (AM)	.142	.003	163.6
3 (AM)	.072	.003	91.7
4 (AM)	.222	.019	20.3
9 (AM)	.131	.021	10.4
1 (PM)	.271	.003	296.2
3 (PM)	.122	.004	142.1
4 (PM)	.308	.026	28.7
9 (PM)	.140	.026	10.9
19/12/85			
1 (AM)	.165	.005	185.2
3 (AM)	.078	.004	96.8
4 (AM)	.302	.024	28.3
9 (AM)	.157	.027	12.6
1 (PM)	.238	.006	259.2
3 (PM)	.100	.005	118.4
4 (PM)	.315	.026	29.5
9 (PM)	.138	.025	10.8
20/12/85			
1 (AM)	.129	.007	146.2
3 (AM)	.069	.006	85.5
4 (AM)	.274	.028	24.9
9 (AM)	.123	.028	8.8
1 (PM)	.278	.005	301.4
3 (PM)	.096	.006	113.3
4 (AM)	.287	.029	26.2
9 (PM)	.132	.027	9.9
23/12/85			
1 (AM)	.130	.005	149.2
3 (AM)	.070	.005	87.9
4 (AM)	.252	.028	22.6
9 (AM)	.121	.025	8.9
1 (PM)	.242	.003	266.4
3 (PM)	.108	.004	127.7
4 (PM)	.307	.029	28.3
9 (PM)	.148	.026	11.7
24/12/85			
1 (AM)	.170	.006	189.3
3 (AM)	.120	.010	133.8
4 (AM)	.191	.038	15.0
9 (AM)	.095	.043	4.3
1 (PM)	.332	.007	354.8
3 (PM)	.145	.006	163.6
4 (PM)	.279	.026	25.6
9 (PM)	.136	.030	10.0

Chlorine values

sample site	abs. reading	blank	ug/L
27/12/85			
1 (AM)	.158	.004	179.1
3 (AM)	.075	.004	93.7
4 (AM)	.297	.029	27.2
9 (AM)	.144	.028	11.1
1 (PM)	.290	.004	314.7
3 (PM)	.111	.004	130.7
4 (PM)	.305	.028	28.2
9 (PM)	.144	.025	11.4
30/12/85			
1 (AM)	.176	.004	197.6
3 (AM)	.089	.004	108.1
4 (AM)	.320	.033	29.3
9 (AM)	.153	.026	12.2
1 (PM)	.306	.008	327.1
3 (PM)	.168	.006	187.3
4 (PM)	.268	.036	23.4
9 (PM)	.125	.038	8.0
31/12/85			
1 (AM)	.161	.008	178.0
3 (AM)	.077	.005	94.8
4 (AM)	.265	.027	24.1
9 (AM)	.130	.024	10.0

Chlorine values

sample site	abs. reading	blank	ug/L
2/01/86			
1 (AM)	.148	.005	164.3
3 (AM)	.083	.004	99.5
4 (AM)	.316	.028	29.7
9 (AM)	.150	.025	12.6
1 (PM)	.283	.003	303.2
3 (PM)	.110	.005	125.8
4 (PM)	.260	.033	23.3
9 (PM)	.138	.040	9.7
3/01/86			
1 (AM)	.168	.003	186.6
3 (AM)	.087	.003	104.5
4 (AM)	.247	.026	22.7
9 (AM)	.120	.026	9.3
1 (PM)	.242	.004	260.6
3 (PM)	.094	.004	110.6
4 (PM)	.261	.027	24.0
9 (PM)	.104	.027	7.5

Chlorine values

sample site		abs. reading	blank	ug/L
6/01/86				
	1 (AM)	.182	.003	200.8
	3 (AM)	.082	.004	98.4
	4 (AM)	.257	.027	23.6
	9 (AM)	.113	.024	8.8
	1 (PM)	.208	.003	227.2
	3 (PM)	.134	.004	151.1
	4 (PM)	.323	.030	30.3
	9 (PM)	.150	.030	12.1
7/01/86				
	1 (AM)	.168	.003	186.6
	3 (AM)	.068	.003	86.3
	4 (AM)	.242	.029	21.8
	9 (AM)	.105	.027	7.6
	1 (PM)	.238	.003	257.6
	3 (PM)	.097	.004	113.6
	4 (PM)	.259	.027	23.8
	9 (PM)	.109	.025	8.3
9/01/86				
	1 (AM)	.180	.003	198.8
	3 (AM)	.072	.003	89.3
	4 (AM)	.244	.028	22.2
	9 (AM)	.108	.026	8.1
	1 (PM)	.223	.003	242.4
	3 (PM)	.092	.002	110.6
	4 (PM)	.252	.027	23.1
	9 (PM)	.115	.027	8.7
9/01/86				
	1 (AM)	.210	.005	227.2
	3 (AM)	.077	.004	93.4
	4 (AM)	.248	.027	22.7
	9 (AM)	.112	.025	8.6
	1 (PM)	.242	.004	260.6
	3 (PM)	.116	.003	133.9
	4 (PM)	.280	.028	25.9
	9 (PM)	.121	.025	9.5
10/01/86				
	1 (AM)	.169	.004	186.6
	3 (AM)	.090	.004	106.5
	4 (AM)	.296	.029	27.5
	9 (AM)	.142	.024	11.8
	1 (PM)	.245	.003	264.7
	3 (PM)	.127	.003	145.1
	4 (PM)	.305	.026	28.8
	9 (PM)	.133	.027	10.6

Chlorine values

sample site	abs. reading	blank	ug/L
13/01/86			
1 (AM)	.245	.003	264.7
3 (AM)	.127	.003	145.1
4 (AM)	.305	.026	28.8
9 (AM)	.133	.027	10.6
1 (PM)	.363	.004	383.2
3 (PM)	.170	.006	185.6
4 (PM)	.301	.027	28.3
9 (PM)	.151	.028	12.4
14/01/86			
1 (AM)	.313	.003	333.6
3 (AM)	.112	.002	130.9
4 (AM)	.247	.026	22.7
9 (AM)	.094	.023	6.9
1 (PM)	.369	.002	391.4
3 (PM)	.166	.003	184.6
4 (PM)	.227	.026	20.6
9 (PM)	.081	.022	5.6
15/01/86			
1 (AM)	.327	.003	347.8
3 (AM)	.127	.004	144.0
4 (AM)	.239	.024	22.0
9 (AM)	.082	.022	5.7
1 (PM)	.394	.004	414.7
3 (PM)	.160	.004	177.5
4 (PM)	.247	.026	22.7
9 (PM)	.093	.022	6.9
16/01/86			
1 (AM)	.307	.003	327.5
3 (AM)	.162	.003	180.5
4 (AM)	.245	.027	22.4
9 (AM)	.074	.022	4.9
1 (PM)	.409	.00x	430.9
3 (PM)	.162	.003	180.5
4 (PM)	.248	.030	22.4
9 (PM)	.083	.022	5.9
17/01/86			
1 (AM)	.330	.0[illegible]	350.8
3 (AM)	.133	.[illegible]	150.1
4 (AM)	.242	.[illegible]	22.0
9 (AM)	.081	.[illegible]	5.5
1 (PM)	.429	.003	51.1
3 (PM)	.168	.003	36.6
4 (PM)	.259	.028	3.7
9 (PM)	.174	.030	6

Chlorine values

sample site		abs. reading	blank	ug/L
20/01/86				
	1 (AM)	.331	.003	351.8
	3 (AM)	.194	.003	213.0
	4 (AM)	.278	.022	26.4
	9 (AM)	.086	.021	6.3
	1 (PM)	.455	.003	477.5
	3 (PM)	.180	.003	198.8
	4 (PM)	.264	.031	23.9
	9 (PM)	.112	.032	7.9
21/01/86				
	1 (AM)	.348	.003	369.1
	3 (AM)	.154	.004	171.4
	4 (AM)	.242	.025	22.3
	9 (AM)	.090	.022	6.6
	1 (PM)	.463	.004	484.6
	3 (PM)	.210	.004	228.2
	4 (PM)	.259	.025	24.0
	9 (PM)	.098	.019	7.7
22/01/86				
	1 (AM)	.390	.002	412.6
	3 (AM)	.171	.003	189.7
	4 (AM)	.260	.027	23.9
	9 (AM)	.098	.021	7.5
	1 (PM)	.489	.002	513.0
	3 (PM)	.220	.002	240.3
	4 (PM)	.249	.022	23.2
	9 (PM)	.099	.020	7.7
23/01/86				
	1 (AM)	.376	.003	397.4
	3 (AM)	.149	.003	167.4
	4 (AM)	.266	.024	24.9
	9 (AM)	.095	.018	7.5
	1 (PM)	.460	.002	483.6
	3 (PM)	.199	.006	215.0
	4 (PM)	.260	.020	24.7
	9 (PM)	.098	.019	7.7
24/01/86				
	1 (AM)	.405	.006	423.8
	3 (AM)	.169	.003	187.6
	4 (AM)	.247	.023	23.0
	9 (AM)	.095	.020	7.3
	1 (PM)	.485	.003	507.9
	3 (PM)	.207	.005	224.1
	4 (PM)	.246	.025	22.7
	9 (PM)	.091	.020	6.9

Chlorine values

sample site	abs. reading	blank	ug/L
27/01/86			
1 (AM)	.400	.003	421.8
3 (AM)	.188	.004	205.9
4 (AM)	.270	.023	25.4
9 (AM)	.111	.019	9.1
1 (PM)	.460	.004	481.6
3 (PM)	.263	.003	282.9
4 (PM)	.262	.026	24.3
9 (PM)	.118	.023	9.4
28/01/86			
1 (AM)	.437	.002	460.3
3 (AM)	.210	.003	229.2
4 (AM)	.281	.026	26.3
9 (AM)	.113	.022	9.0
1 (PM)	.497	.004	519.1
3 (PM)	.230	.003	249.5
4 (PM)	.274	.024	25.7
9 (PM)	.149	.021	12.9
29/01/86			
1 (AM)	.355	.001	378.2
3 (AM)	.163	.002	182.6
4 (AM)	.273	.020	26.0
9 (AM)	.146	.018	12.9
1 (PM)	.492	.003	515.0
3 (PM)	.223	.004	241.3
4 (PM)	.277	.026	25.8
9 (PM)	.173	.021	15.4
30/01/86			
1 (AM)	.397	.001	420.7
3 (AM)	.147	.002	166.3
4 (AM)	.277	.020	26.5
9 (AM)	.086	.018	6.6
1 (PM)	.493	.004	515.0
3 (PM)	.264	.003	283.9
4 (PM)	.300	.027	28.1
9 (PM)	.103	.027	7.4
31/01/86			
1 (AM)	.428	.003	450.1
3 (AM)	.182	.004	199.8
4 (AM)	.274	.022	25.9
9 (AM)	.092	.021	6.9
1 (PM)	.503	.003	526.2
3 (PM)	.239	.003	258.6
4 (PM)	.279	.024	26.3
9 (PM)	.098	.021	7.5

Chlorine values

sample site	abs. reading	blank	ug/L
03/02/86			
1 (AM)	.428	.003	452.1
3 (AM)	.210	.006	226.9
4 (AM)	.303	.020	29.4
9 (AM)	.109	.017	9.3
1 (PM)	.492	.001	519.3
3 (PM)	.158	.002	178.0
4 (PM)	.290	.028	27.2
9 (PM)	.115	.032	8.3
04/02/86			
1 (AM)	.406	.003	429.7
3 (AM)	.164	.005	181.1
4 (AM)	.263	.017	25.5
9 (AM)	.098	.015	8.3
1 (PM)	.496	.002	522.4
3 (PM)	.213	.005	231.0
4 (PM)	.269	.022	25.6
9 (PM)	.099	.020	7.9
05/02/86			
1 (AM)	.460	.003	484.7
3 (AM)	.166	.006	182.1
4 (AM)	.274	.022	26.2
9 (AM)	.100	.021	7.9
1 (PM)	.487	.002	513.2
3 (PM)	.222	.004	241.2
4 (PM)	.271	.023	25.7
9 (PM)	.118	.021	9.8
06/02/86			
1 (AM)	.420	.003	443.9
3 (AM)	.165	.006	181.1
4 (AM)	.282	.022	27.0
9 (AM)	.110	.017	9.4
1 (PM)	.488	.002	514.2
3 (PM)	.193	.004	211.7
4 (PM)	.280	.024	26.6
9 (PM)	.098	.021	7.7
07/02/86			
1 (AM)	.453	.003	477.6
3 (AM)	.168	.006	184.1
4 (AM)	.260	.020	24.9
9 (AM)	.094	.018	7.6
1 (PM)	.501	.003	526.5
3 (PM)	.210	.006	226.9
4 (PM)	.273	.029	25.3
9 (PM)	.100	.022	7.8

Chlorine values

sample site	abs. reading	blank	ug/L
10/02/86			
1 (AM)	.423	.002	448.0
3 (AM)	.218	.006	235.1
4 (AM)	.299	.019	29.1
9 (AM)	.109	.018	9.2
1 (PM)	.489	.002	515.3
3 (PM)	.221	.004	240.2
4 (PM)	.321	.026	30.7
9 (PM)	.158	.026	13.5
11/02/86			
1 (AM)	.410	.003	433.8
3 (AM)	.170	.006	186.2
4 (AM)	.284	.022	27.2
9 (AM)	.112	.019	9.4
1 (PM)	.490	.003	515.3
3 (PM)	.203	.003	222.9
4 (PM)	.298	.024	28.5
9 (PM)	.122	.021	10.2
12/02/86			
1 (AM)	.462	.004	485.7
3 (AM)	.144	.003	162.8
4 (AM)	.304	.019	29.7
9 (AM)	.113	.018	9.6
1 (PM)	.575	.002	602.9
3 (PM)	.271	.002	293.2
4 (PM)	.298	.022	28.7
9 (PM)	.118	.021	9.8
13/02/86			
1 (AM)	.398	.003	421.5
3 (AM)	.142	.003	160.7
4 (AM)	.287	.019	27.9
9 (AM)	.150	.018	13.5
1 (PM)	.518	.005	541.7
3 (PM)	.217	.004	236.1
4 (PM)	.289	.024	27.5
9 (PM)	.102	.022	8.0
14/02/86			
1 (AM)	.343	.002	366.5
3 (AM)	.152	.002	171.9
4 (AM)	.273	.020	26.3
9 (AM)	.092	.017	7.5
1 (PM)	.448	.002	473.5
3 (PM)	NO READING, WATER OFF		
4 (PM)	.273	.023	26.0
9 (PM)	.099	.020	7.9

Chlorine values

sample site		abs. reading	blank	ug/L
17/02/86				
	1 (AM)	.369	.002	369.6
	3 (AM)	.158	.004	153.1
	4 (AM)	.322	.019	30.5
	9 (AM)	.111	.017	8.2
	1 (PM)	.460	.004	460.1
	3 (PM)	.211	.003	208.0
	4 (PM)	.157	.004	152.1
	9 (PM)	.340	.030	31.3
18/02/86				
	1 (AM)	.310	.003	308.6
	3 (AM)	.124	.003	119.6
	4 (AM)	NO READING		
	9 (AM)	.312	.020	29.4
	1 (PM)	.387	.004	385.9
	3 (PM)	.160	.006	153.1
	4 (PM)	.281	.024	25.6
	9 (PM)	.100	.021	6.6
19/02/86				
	1 (AM)	.290	.003	288.3
	3 (AM)	.118	.006	110.4
	4 (AM)	.290	.026	26.4
	9 (AM)	.094	.017	6.4
	1 (PM)	.389	.003	388.9
	3 (PM)	.152	.003	148.0
	4 (PM)	.288	.023	26.5
	9 (PM)	.103	.021	6.9
20/02/86				
	1 (AM)	.306	.003	304.6
	3 (AM)	.111	.003	106.3
	4 (AM)	.283	.022	26.0
	9 (AM)	.102	.018	7.1
	1 (PM)	.407	.001	409.3
	3 (PM)	.170	.002	167.3
	4 (PM)	.291	.023	26.8
	9 (PM)	.116	.021	8.3
21/02/86				
	1 (AM)	.309	.002	308.6
	3 (AM)	.127	.003	122.6
	4 (AM)	.283	.022	26.0
	9 (AM)	.113	.020	8.1
	1 (PM)	.416	.002	417.4
	3 (PM)	.187	.003	183.6
	4 (PM)	.300	.022	27.9
	9 (PM)	.125	.020	9.4

Chlorine values

sample site	abs. reading	blank	ug/L
24/02/86			
1 (AM)	.298	.003	302.2
3 (AM)	.153	.006	149.3
4 (AM)	.299	.019	28.2
9 (AM)	.113	.016	8.9
1 (PM)	.500	.001	512.9
3 (PM)	.191	.003	191.7
4 (PM)	.304	.021	28.5
9 (PM)	.131	.022	10.2
25/02/86			
1 (AM)	.356	.001	364.2
3 (AM)	.149	.002	149.3
4 (AM)	.293	.024	27.1
9 (AM)	.117	.021	8.8
1 (PM)	.438	.002	447.8
3 (PM)	.189	.003	189.6
4 (PM)	.310	.024	28.8
9 (PM)	.141	.020	11.5
26/02/86			
1 (AM)	.373	.002	380.7
3 (AM)	.120	.003	118.3
4 (AM)	.299	.021	28.0
9 (AM)	.125	.019	9.9
1 (PM)	.500	.003	510.8
3 (PM)	.162	.003	161.7
4 (PM)	.240	.026	21.3
9 (PM)	.079	.020	4.9
27/02/86			
1 (AM)	.404	.002	412.7
3 (AM)	.097	.006	91.5
4 (AM)	.215	.019	19.4
9 (AM)	.064	.017	3.7
1 (PM)	.522	.002	534.6
3 (PM)	.158	.003	157.6
4 (PM)	.211	.020	18.8
9 (PM)	.060	.018	3.1
28/02/86			
1 (AM)	.370	.002	377.6
3 (AM)	.110	.004	107.0
4 (AM)	.199	.022	17.4
9 (AM)	.061	.017	3.4
1 (PM)	.552	.000	567.6
3 (PM)	.161	.000	163.8
4 (PM)	.207	.021	18.3
9 (PM)	.065	.018	3.7

Chlorine values

sample site		abs. reading	blank	ug/L
3/03/86				
	1 (AM)	.483	.003	478.0
	3 (AM)	.131	.002	132.8
	4 (AM)	.241	.019	22.8
	9 (AM)	.073	.017	5.7
	1 (PM)	.664	.004	655.0
	3 (PM)	.231	.007	226.2
	4 (PM)	.248	.038	21.6
	9 (PM)	.074	.028	4.7
4/03/86				
	1 (AM)	.365	.002	362.9
	3 (AM)	.143	.003	143.6
	4 (AM)	.197	.020	18.2
	9 (AM)	.059	.017	4.3
	1 (PM)	.500	.001	496.7
	3 (PM)	.182	.001	182.9
	4 (PM)	.203	.022	18.6
	9 (PM)	.068	.019	5.0
5/03/86				
	1 (AM)	.490	.002	485.8
	3 (AM)	.145	.004	144.6
	4 (AM)	.228	.021	21.3
	9 (AM)	.079	.018	6.2
	1 (PM)	.500	.001	496.7
	3 (PM)	.175	.007	171.1
	4 (PM)	.192	.021	17.5
	9 (PM)	.070	.019	5.2
6/03/86				
	1 (AM)	.388	.002	385.5
	3 (AM)	.081	.001	84.6
	4 (AM)	.194	.021	17.7
	9 (AM)	.047	.018	2.9
	1 (PM)	.516	.003	510.4
	3 (PM)	.179	.004	178.0
	4 (PM)	.180	.020	16.4
	9 (PM)	.053	.019	3.4
7/03/86				
	1 (AM)	.460	.003	455.4
	3 (AM)	.142	.001	144.6
	4 (AM)	.193	.026	17.1
	9 (AM)	.052	.021	3.1
	1 (PM)	.500	.003	494.7
	3 (PM)	.153	.006	150.5
	4 (PM)	.139	.022	12.0
	9 (PM)	.051	.020	3.1

Chlorine values

sample site	abs. reading	blank	ug/L
10/03/86			
1 (AM)	.422	.003	424.2
3 (AM)	.131	.004	123.3
4 (AM)	.212	.020	19.9
9 (AM)	.058	.017	4.3
1 (PM)	.503	.002	508.7
3 (PM)	.168	.008	157.3
4 (PM)	.194	.022	17.8
9 (PM)	.056	.019	3.9
11/03/86			
1 (AM)	.344	.001	345.9
3 (AM)	.105	.004	96.5
4 (AM)	.185	.023	16.8
9 (AM)	.048	.018	3.2
1 (PM)	.465	.003	468.5
3 (PM)	.157	.007	147.0
4 (PM)	.193	.022	17.7
9 (PM)	.051	.019	3.4
12/03/86			
1 (AM)	.358	.001	360.3
3 (AM)	.123	.001	118.1
4 (AM)	.210	.022	19.5
9 (AM)	.055	.018	3.9
1 (PM)	.483	.002	488.1
3 (PM)	.163	.005	155.2
4 (PM)	.203	.023	18.6
9 (PM)	.056	.019	3.9
13/03/86			
1 (AM)	.361	.002	362.4
3 (AM)	.077	.008	63.5
4 (AM)	.194	.021	17.9
9 (AM)	.131	.033	10.2
1 (PM)	.408	.005	407.7
3 (PM)	.136	.005	127.4
4 (PM)	.201	.021	18.6
9 (PM)	.054	.019	3.7
14/03/86			
1 (AM)	.377	.003	377.8
3 (AM)	.124	.006	114.0
4 (AM)	.200	.022	18.4
9 (AM)	.054	.017	3.9
1 (PM)	.524	.002	530.3
3 (PM)	.176	.005	168.6
4 (PM)	.202	.022	18.6
9 (PM)	.058	.018	4.2

Chlorine values

sample site	abs. reading	blank	ug/L
17/03/86			
1 (AM)	.360	.002	359.5
3 (AM)	.122	.005	110.9
4 (AM)	.221	.018	21.0
9 (AM)	.060	.016	4.4
1 (PM)	.494	.001	498.7
3 (PM)	.161	.001	155.3
4 (PM)	.201	.026	18.1
9 (PM)	.065	.022	4.3
18/03/86			
1 (AM)	.348	.003	346.0
3 (AM)	.118	.007	104.8
4 (AM)	.179	.019	16.5
9 (AM)	.053	.017	3.6
1 (PM)	.498	.002	501.8
3 (PM)	.166	.005	156.3
4 (PM)	.194	.023	17.7
9 (PM)	.053	.018	3.5
19/03/86			
1 (AM)	.351	.001	351.2
3 (AM)	.128	.003	119.2
4 (AM)	.188	.019	17.5
9 (AM)	.052	.016	3.6
1 (PM)	.489	.004	490.4
3 (PM)	.162	.005	152.2
4 (PM)	.188	.022	17.2
9 (PM)	.056	.019	3.7
20/03/86			
1 (AM)	.353	.001	353.3
3 (AM)	.073	.006	59.4
4 (AM)	.184	.021	16.9
9 (AM)	.050	.018	3.2
1 (PM)	.511	.002	515.2
3 (PM)	.166	.004	157.3
4 (PM)	.193	.022	17.7
9 (PM)	.053	.019	3.4
21/03/86			
1 (AM)	.453	.002	455.4
3 (AM)	.119	.004	108.9
4 (AM)	.186	.021	17.1
9 (AM)	.055	.017	3.8
1 (PM)	.451	.002	453.3
3 (PM)	.156	.007	143.9
4 (PM)	.189	.023	17.2
9 (PM)	.054	.017	3.7

Chlorine values

sample site	abs. reading	blank	ug/L
24/03/86			
1 (AM)	.339	.002	337.7
3 (AM)	.126	.003	120.1
4 (AM)	.207	.018	19.6
9 (AM)	.058	.017	4.0
1 (PM)	.470	.002	470.9
3 (PM)	.138	.010	125.2
4 (PM)	.190	.022	17.4
9 (PM)	.056	.019	3.6
25/03/86			
1 (AM)	.348	.002	346.8
3 (AM)	.087	.004	79.4
4 (AM)	.182	.021	16.6
9 (AM)	.048	.017	3.0
1 (PM)	.469	.001	470.9
3 (PM)	.143	.006	134.3
4 (PM)	.182	.023	16.4
9 (PM)	.055	.019	3.5
26/03/86			
1 (AM)	.386	.003	384.5
3 (AM)	.100	.020	90.6
4 (AM)	.171	.020	15.6
9 (AM)	.050	.017	3.2
1 (PM)	.456	.003	455.6
3 (PM)	.149	.007	139.4
4 (PM)	.178	.023	16.0
9 (PM)	.057	.018	3.8
27/03/86			
1 (AM)	.378	.004	375.3
3 (AM)	.063	.006	53.0
4 (AM)	.169	.021	15.3
9 (AM)	.047	.016	3.0
1 (PM)	.509	.001	511.5
3 (PM)	.153	.006	144.5
4 (PM)	.180	.023	16.2
9 (PM)	.055	.019	3.5

Chlorine values

sample site		abs. reading	blank	ug/L
01/04/86				
	1 (AM)	.357	.003	354.6
	3 (AM)	.126	.006	118.5
	4 (AM)	.217	.019	20.5
	9 (AM)	.062	.016	4.6
	1 (PM)	.490	.002	489.8
	3 (PM)	.172	.003	167.9
	4 (PM)	.245	.026	22.7
	9 (PM)	.112	.021	9.3
02/04/86				
	1 (AM)	.360	.003	357.6
	3 (AM)	.105	.006	97.3
	4 (AM)	.210	.023	19.4
	9 (AM)	.060	.019	4.1
	1 (PM)	.452	.002	451.5
	3 (PM)	.123	.006	115.4
	4 (PM)	.188	.026	16.8
	9 (PM)	.083	.022	6.2
03/04/86				
	1 (AM)	.290	.002	288.0
	3 (AM)	.066	.003	60.9
	4 (AM)	.161	.022	14.4
	9 (AM)	.049	.018	3.0
	1 (PM)	.439	.002	438.4
	3 (PM)	.142	.006	134.6
	4 (PM)	.164	.021	14.8
	9 (PM)	.052	.018	3.3
04/04/86				
	1 (AM)	.348	.003	345.5
	3 (AM)	.087	.003	82.1
	4 (AM)	.164	.022	14.7
	9 (AM)	.051	.019	3.1
	1 (PM)	.471	.002	470.7
	3 (PM)	.150	.005	143.7
	4 (PM)	.170	.026	14.9
	9 (PM)	.055	.018	3.7

Chlorine values

sample site	abs. reading	blank	ug/L
07/04/86			
1 (AM)	.333	.002	334.7
3 (AM)	.131	.003	123.7
4 (AM)	.207	.021	19.2
9 (AM)	.063	.017	4.6
1 (PM)	.469	.001	477.1
3 (PM)	.144	.003	137.2
4 (PM)	.181	.030	15.6
9 (PM)	.060	.021	3.9
08/04/86			
1 (AM)	.341	.002	343.0
3 (AM)	.116	.006	105.0
4 (AM)	.174	.022	15.7
9 (AM)	.058	.018	4.0
1 (PM)	.483	.002	490.6
3 (PM)	.152	.006	142.4
4 (PM)	.189	.024	17.0
9 (PM)	.069	.021	4.8
09/04/86			
1 (AM)	.348	.005	347.2
3 (AM)	.101	.007	88.4
4 (AM)	.132	.023	11.2
9 (AM)	.030	.019	1.0
1 (PM)	.462	.003	467.7
3 (PM)	.111	.007	98.7
4 (PM)	.107	.024	8.5
9 (PM)	.023	.0205	0.1
10/04/86			
1 (AM)	.410	.003	413.7
3 (AM)	.105	.004	95.6
4 (AM)	.098	.023	7.7
9 (AM)	.021	.019	0.0
1 (PM)	.470	.000	479.2
3 (PM)	.131	.000	126.8
4 (PM)	.103	.024	8.1
9 (PM)	.022	.020	0.0
11/04/86			
1 (AM)	.331	.004	330.5
3 (AM)	.094	.005	83.2
4 (AM)	.094	.023	7.2
9 (AM)	.027	.019	0.7
1 (PM)	.293	.003	292.1
3 (PM)	.094	.005	83.2
4 (PM)	.095	.026	7.0
9 (PM)	.021	.019	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
14/04/86			
1 (AM)	.299	.003	296.4
3 (AM)	.092	.006	78.1
4 (AM)	.111	.022	9.3
9 (AM)	.020	.019	0.2
1 (PM)	.462	.004	464.9
3 (PM)	.118	.006	105.1
4 (PM)	.100	.024	8.0
9 (PM)	.023	.022	0.2
15/04/86			
1 (AM)	.321	.002	320.3
3 (AM)	.086	.004	73.9
4 (AM)	.088	.023	6.8
9 (AM)	.021	.020	0.2
1 (PM)	.495	.004	499.2
3 (PM)	.161	.008	147.7
4 (PM)	.101	.025	8.0
9 (PM)	.025	.022	0.4
16/04/86			
1 (AM)	.247	.005	240.3
3 (AM)	.078	.007	62.5
4 (AM)	.090	.027	6.6
9 (AM)	.021	.020	0.2
1 (PM)	.373	.002	374.4
3 (PM)	.110	.005	97.8
4 (PM)	.096	.026	7.3
9 (PM)	.022	.021	0.2
17/04/86			
1 (AM)	.383	.005	381.7
3 (AM)	.080	.006	65.6
4 (AM)	.089	.024	6.8
9 (AM)	.021	.020	0.2
1 (PM)	.377	.004	376.5
3 (PM)	.108	.007	93.7
4 (PM)	.100	.027	7.7
9 (PM)	.022	.022	0.1
18/04/86			
1 (AM)	.316	.006	311.0
3 (AM)	.078	.008	61.4
4 (AM)	.097	.025	7.6
9 (AM)	.023	.021	0.3
1 (PM)	.380	.003	380.6
3 (PM)	.108	.006	94.7
4 (PM)	.109	.026	8.7
9 (PM)	.024	.021	0.4

Chlorine values

sample site	abs. reading	blank	ug/L
21/04/86			
1 (AM)	.318	.005	309.9
3 (AM)	.078	.005	60.1
4 (AM)	.151	.026	12.3
9 (AM)	.029	.022	0.3
1 (PM)	.410	.003	407.7
3 (PM)	.114	.002	100.7
4 (PM)	.123	.030	9.1
9 (PM)	.031	.026	0.1
22/04/86			
1 (AM)	.281	.006	270.3
3 (AM)	.083	.007	63.3
4 (AM)	.107	.027	7.7
9 (AM)	.026	.022	0.0
1 (PM)	.378	.003	374.4
3 (PM)	.107	.006	89.3
4 (PM)	.118	.027	8.9
9 (PM)	.026	.022	0.0
23/04/86			
1 (AM)	.312	.006	302.6
3 (AM)	.088	.007	68.5
4 (AM)	.110	.025	8.3
9 (AM)	.023	.021	0.0
1 (PM)	.355	.003	350.5
3 (PM)	.109	.006	91.4
4 (PM)	.098	.026	6.9
9 (PM)	.022	.021	0.0
24/04/86			
1 (AM)	.311	.006	301.5
3 (AM)	.051	.008	28.9
4 (AM)	.114	.027	8.5
9 (AM)	.026	.022	0.0
1 (PM)	.328	.004	321.3
3 (PM)	.078	.007	58.1
4 (PM)	.116	.027	8.7
9 (PM)	.027	.022	0.1
25/04/86			
1 (AM)	.230	.005	218.3
3 (AM)	.058	.005	39.3
4 (AM)	.109	.027	7.9
9 (AM)	.026	.021	0.1
1 (PM)	.304	.004	296.3
3 (PM)	.074	.007	53.9
4 (PM)	.113	.028	8.3
9 (PM)	.027	.022	0.1

Chlorine values

sample site		abs. reading	blank	ug/L
28/04/86				
	1 (AM)	.274	.008	271.1
	3 (AM)	.068	.006	60.6
	4 (AM)	.144	.024	12.2
	9 (AM)	.027	.019	0.8
	1 (PM)	.355	.005	357.8
	3 (PM)	.090	.007	82.3
	4 (PM)	.119	.028	9.3
	9 (PM)	.028	.022	0.6
29/04/86				
	1 (AM)	.313	.009	310.4
	3 (AM)	.069	.007	60.6
	4 (AM)	.113	.026	8.9
	9 (AM)	.027	.021	0.6
	1 (PM)	.359	.006	360.9
	3 (PM)	.089	.009	79.2
	4 (PM)	.138	.030	11.0
	9 (PM)	.038	.024	1.5
30/04/86				
	1 (AM)	.228	.006	225.7
	3 (AM)	.053	.008	43.1
	4 (AM)	.121	.026	9.7
	9 (AM)	.028	.020	0.8
	1 (PM)	.288	.006	287.7
	3 (PM)	.111	.007	104.0
	4 (PM)	.100	.028	7.3
	9 (PM)	.023	.022	0.1

Chlorine values

sample site	abs. reading	blank	ug/L
01/05/86			
1 (AM)	.502	.007	507.5
3 (AM)	.110	.009	100.9
4 (AM)	.055	.036	2.0
9 (AM)	.035	.030	0.5
1 (PM)	.412	.007	414.6
3 (PM)	.238	.008	234.0
4 (PM)	.190	.037	15.5
9 (PM)	.053	.030	2.4
02/05/86			
1 (AM)	.338	.006	339.3
3 (AM)	.061	.004	55.5
4 (AM)	.190	.036	15.6
9 (AM)	.052	.031	2.2
1 (PM)	.381	.005	384.7
3 (PM)	.096	.006	89.5
4 (PM)	.127	.028	10.1
9 (PM)	.032	.022	1.1

Chlorine values

sample site	abs. reading	blank	ug/L
05/05/86			
1 (AM)	.298	.007	297.5
3 (AM)	.055	.006	48.0
4 (AM)	.124	.026	10.7
9 (AM)	.022	.019	0.8
1 (PM)	.277	.006	276.9
3 (PM)	.063	.009	53.1
4 (PM)	.112	.029	9.1
9 (PM)	.034	.030	0.9
06/05/86			
1 (AM)	.237	.008	232.6
3 (AM)	.058	.007	50.1
4 (AM)	.098	.026	10.0
9 (AM)	.022	.020	0.7
1 (PM)	.317	.007	317.1
3 (PM)	.078	.008	69.6
4 (PM)	.128	.027	11.0
9 (PM)	.030	.023	1.2
07/05/86			
1 (AM)	.393	.008	394.4
3 (AM)	.063	.006	56.2
4 (AM)	.128	.025	11.2
9 (AM)	.022	.018	0.9
1 (PM)	.292	.006	292.3
3 (PM)	.076	.008	67.6
4 (PM)	.120	.028	10.0
9 (PM)	.028	.022	1.1
08/05/86			
1 (AM)	.424	.008	426.4
3 (AM)	.138	.008	131.5
4 (AM)	.195	.029	17.8
9 (AM)	.030	.021	1.4
1 (PM)	.310	.006	310.9
3 (PM)	.082	.009	72.7
4 (PM)	.119	.023	10.5
9 (PM)	.026	.019	1.2
09/05/86			
1 (AM)	.338	.016	329.4
3 (AM)	.071	.011	59.3
4 (AM)	.119	.028	9.9
9 (AM)	.022	.020	0.7
1 (PM)	.298	.007	297.5
3 (PM)	.072	.009	62.4
4 (PM)	.138	.028	11.9
9 (PM)	.028	.022	1.1

Chlorine values

sample site	abs. reading	blank	ug/L
12/05/86			
1 (AM)	.236	.005	236.1
3 (AM)	.058	.004	51.6
4 (AM)	.140	.023	12.1
9 (AM)	.026	.020	0.7
1 (PM)	.251	.006	250.7
3 (PM)	.053	.008	42.3
4 (PM)	.122	.028	9.8
9 (PM)	.030	.024	0.7
13/05/86			
1 (AM)	.174	.007	169.4
3 (AM)	.051	.005	43.3
4 (AM)	.112	.028	8.7
9 (AM)	.022	.020	0.3
1 (PM)	.178	.005	175.6
3 (PM)	.057	.007	47.5
4 (PM)	.115	.026	9.2
9 (PM)	.024	.020	0.5
14/05/86			
1 (AM)	.220	.008	216.3
3 (AM)	.066	.006	57.9
4 (AM)	.113	.023	9.3
9 (AM)	.024	.019	0.6
1 (PM)	.303	.009	301.7
3 (PM)	.071	.008	61.0
4 (PM)	.126	.027	10.2
9 (PM)	.027	.021	0.7
15/05/86			
1 (AM)	.277	.007	275.7
3 (AM)	.057	.007	47.5
4 (AM)	.112	.023	9.2
9 (AM)	.023	.021	0.2
1 (PM)	.249	.006	248.6
3 (PM)	.052	.008	41.2
4 (PM)	.112	.023	9.2
9 (PM)	.026	.021	0.6

Chlorine values

Sample site	abs. reading	blank	ug/L
26/05/86			
1 (AM)	.146	.004	144.6
3 (AM)	.043	.005	37.4
4 (AM)	.117	.021	11.2
9 (AM)	.024	.017	1.6
1 (PM)	.263	.002	267.3
3 (PM)	.042	.003	38.4
4 (PM)	.139	.028	12.8
9 (PM)	.037	.023	2.3
27/05/86			
1 (AM)	.114	.004	111.6
3 (AM)	.042	.006	35.3
4 (AM)	.112	.022	10.5
9 (AM)	.022	.018	1.2
1 (PM)	.292	.003	296.1
3 (PM)	.047	.005	41.5
4 (PM)	.110	.025	10.0
9 (PM)	.025	.021	1.2
28/05/86			
1 (AM)	.238	.003	240.5
3 (AM)	.041	.006	34.3
4 (AM)	.102	.020	9.7
9 (AM)	.020	.018	1.0
1 (PM)	.317	.003	321.9
3 (PM)	.043	.003	39.5
4 (PM)	.103	.023	9.4
9 (PM)	.022	.019	1.1
29/05/86			
1 (AM)	.320	.003	325.0
3 (AM)	.040	.004	35.3
4 (AM)	.103	.021	9.7
9 (AM)	.021	.018	1.1
1 (PM)	.290	.003	294.1
3 (PM)	.042	.006	35.3
4 (PM)	.103	.022	9.6
9 (PM)	.022	.019	1.1
30/05/86			
1 (AM)	.213	.003	214.7
3 (AM)	.040	.005	34.3
4 (AM)	.101	.021	9.4
9 (AM)	.019	.017	1.0
1 (PM)	.431	.003	439.4
3 (PM)	.047	.006	40.5
4 (PM)	.063	.022	5.2
9 (PM)	.017	.017	0.8

Chlorine values

sample site	abs. reading	blank	ug/L
02/06/86			
1 (AM)	.227	.002	230.4
3 (AM)	.032	.004	27.3
4 (AM)	.087	.020	8.3
9 (AM)	.017	.016	0.9
1 (PM)	.345	.003	351.1
3 (PM)	.038	.004	33.4
4 (PM)	.059	.024	4.7
9 (PM)	.020	.020	0.8
03/06/86			
1 (AM)	.205	.003	206.7
3 (AM)	.037	.004	32.4
4 (AM)	.061	.020	5.4
9 (AM)	.018	.017	0.9
1 (PM)	.361	.006	364.5
3 (PM)	.043	.006	36.5
4 (PM)	.064	.023	5.4
9 (PM)	.021	.020	0.9
04/06/86			
1 (AM)	.309	.003	314.0
3 (AM)	.045	.004	40.7
4 (AM)	.113	.026	10.5
9 (AM)	.019	.018	0.9
1 (PM)	.327	.002	333.6
3 (PM)	.043	.004	38.6
4 (PM)	.078	.023	6.9
9 (PM)	.022	.022	0.8
05/06/86			
1 (AM)	.302	.003	306.8
3 (AM)	.049	.007	41.7
4 (AM)	.123	.029	11.3
9 (AM)	.023	.023	0.8
1 (PM)	.327	.004	331.5
3 (PM)	.040	.008	31.4
4 (PM)	.073	.024	6.3
9 (PM)	.021	.021	0.8
06/06/86			
1 (AM)	.160	.003	160.3
3 (AM)	.036	.006	29.3
4 (AM)	.066	.024	5.5
9 (AM)	.019	.019	0.8
1 (PM)	.260	.002	264.4
3 (PM)	.043	.005	37.6
4 (PM)	.079	.021	7.3
9 (PM)	.021	.021	0.8

Chlorine values

sample site	abs. reading	blank	ug/L
09/06/86			
1 (AM)	.218	.004	218.9
3 (AM)	.053	.006	48.6
4 (AM)	.113	.021	10.2
9 (AM)	.019	.017	0.2
1 (PM)	.389	.001	400.8
3 (PM)	.048	.005	40.2
4 (PM)	.083	.023	6.1
9 (PM)	.022	.022	0.0
10/06/86			
1 (AM)	.273	.004	276.4
3 (AM)	.058	.007	48.6
4 (AM)	.123	.022	10.2
9 (AM)	.022	.020	0.2
1 (PM)	.483	.008	491.7
3 (PM)			NO READING
4 (PM)	.112	.027	8.6
9 (PM)	.027	.023	0.4
11/06/86			
1 (AM)	.323	.002	330.8
3 (AM)	.054	.004	47.5
4 (AM)	.123	.023	10.1
9 (AM)	.023	.021	0.2
1 (PM)	.518	.002	534.6
3 (PM)	.075	.007	66.4
4 (PM)	.123	.022	10.2
9 (PM)	.027	.020	0.7
12/06/86			
1 (AM)	.463	.003	476.0
3 (AM)	.051	.006	42.3
4 (AM)	.106	.021	8.6
9 (AM)	.022	.018	0.4
1 (PM)	.520	.005	533.5
3 (PM)	.073	.007	64.3
4 (PM)	.112	.026	8.7
9 (PM)	.023	.021	0.2
13/06/86			
1 (AM)	.473	.008	481.3
3 (AM)	.053	.007	43.4
4 (AM)	.108	.026	8.3
9 (AM)	.022	.021	0.1
1 (PM)	.643	.005	662.1
3 (PM)	.077	.009	66.4
4 (PM)	.110	.026	8.5
9 (PM)	.021	.020	0.1

Chlorine values

sample site	abs. reading	blank	ug/L
16/06/86			
1 (AM)	.400	.005	409.1
3 (AM)	.089	.010	79.1
4 (AM)	.163	.020	14.7
9 (AM)	.032	.020	1.0
1 (PM)	.589	.003	608.5
3 (PM)	.098	.006	92.6
4 (PM)	.156	.023	13.6
9 (PM)	.037	.022	1.3
17/06/86			
1 (AM)	.387	.003	397.6
3 (AM)	.058	.006	50.9
4 (AM)	.145	.023	12.5
9 (AM)	.028	.020	0.6
1 (PM)	.642	.004	662.8
3 (PM)	.110	.008	103.1
4 (PM)	.165	.026	14.3
9 (PM)	.029	.023	0.4
18/06/86			
1 (AM)	.394	.002	405.9
3 (AM)	.069	.006	62.4
4 (AM)	.157	.022	13.9
9 (AM)	.023	.017	0.4
1 (PM)	.705	.003	729.7
3 (PM)	.096	.006	90.6
4 (PM)	.156	.027	13.2
9 (PM)	.026	.021	0.3
19/06/86			
1 (AM)	.618	.004	637.8
3 (AM)	.077	.006	70.7
4 (AM)	.152	.025	13.0
9 (AM)	.023	.022	0.0
1 (PM)	.599	.000	622.1
3 (PM)	.078	.001	77.0
4 (PM)	.098	.025	7.4
9 (PM)	.023	.023	0.0
20/06/86			
1 (AM)	.444	.006	454.0
3 (AM)	.068	.007	60.3
4 (AM)	.141	.021	12.3
9 (AM)	.020	.019	0.0
1 (PM)	.591	.003	610.6
3 (PM)	.083	.007	75.9
4 (PM)	.145	.025	12.3
9 (PM)	.022	.021	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
23/06/86			
1 (AM)	.254	.003	258.5
3 (AM)	.052	.006	44.5
4 (AM)	.107	.020	8.8
9 (AM)	.019	.016	0.2
1 (PM)	.553	.004	569.7
3 (PM)	.066	.006	59.1
4 (PM)	.137	.027	11.2
9 (PM)	.027	.025	0.1
24/06/86			
1 (AM)	.278	.003	283.6
3 (AM)	.057	.006	49.7
4 (AM)	.128	.025	10.5
9 (AM)	.022	.021	0.0
1 (PM)	.559	.002	578.0
3 (PM)	.064	.006	57.0
4 (PM)	.123	.024	10.1
9 (PM)	.022	.021	0.0
25/06/86			
1 (AM)	.327	.002	335.8
3 (AM)	.054	.006	46.6
4 (AM)	.119	.022	9.9
9 (AM)	.019	.019	0.0
1 (PM)	.544	.003	561.3
3 (PM)	.074	.009	64.3
4 (PM)	.122	.027	9.7
9 (PM)	.020	.020	0.0
26/06/86			
1 (AM)	.330	.003	337.9
3 (AM)	.058	.007	49.7
4 (AM)	.132	.027	10.7
9 (AM)	.021	.021	0.0
1 (PM)	.522	.003	538.4
3 (PM)	.066	.007	58.1
4 (PM)	.117	.023	9.6
9 (PM)	.019	.019	0.0
27/06/86			
1 (AM)	.329	.006	333.7
3 (AM)	.051	.007	42.4
4 (AM)	.120	.023	9.9
9 (AM)	.020	.020	0.0
1 (PM)	.507	.003	522.7
3 (PM)	.065	.008	56.0
4 (PM)	.124	.025	10.1
9 (PM)	.021	.021	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
30/06/86			
1 (AM)	.285	.003	291.1
3 (AM)	.155	.007	151.3
4 (AM)	.246	.027	22.3
9 (AM)	.041	.022	1.8
1 (PM)	.562	.003	580.1
3 (PM)	.084	.007	77.2
4 (PM)	.173	.027	14.8
9 (PM)	.028	.023	0.4

Chlorine values

Sample site		Abs. reading	blank	ug/L
02/07/95				
	1 (AM)	.288	.003	395.3
	3 (AM)	.054	.004	49.0
	4 (AM)	.124	.023	10.3
	9 (AM)	.019	.019	0.0
	1 (PM)	.459	.002	473.7
	3 (PM)	.062	.006	55.3
	4 (PM)	.132	.021	11.3
	9 (PM)	.020	.019	0.3
03/07/95				
	1 (AM)	.276	.003	391.7
	3 (AM)	.052	.006	44.8
	4 (AM)	.121	.024	9.8
	9 (AM)	.020	.020	0.0
	1 (PM)	.431	.003	443.4
	3 (PM)	.062	.007	54.2
	4 (PM)	.123	.022	10.2
	9 (PM)	.020	.020	0.0
04/07/95				
	1 (AM)	.232	.001	337.9
	3 (AM)	.048	.005	41.7
	4 (AM)	.111	.020	9.3
	9 (AM)	.015	.014	0.0
	1 (PM)	.293	.001	405.9
	3 (PM)	.057	.007	49.0
	4 (PM)	.113	.019	9.5
	9 (PM)	.017	.017	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
07/07/86			
1 (AM)	.256	.002	260.2
3 (AM)	.057	.003	53.8
4 (AM)	.151	.013	14.4
9 (AM)	.033	.011	2.4
1 (PM)	.501	.002	512.9
3 (PM)	.061	.005	55.9
4 (PM)	.116	.015	10.6
9 (PM)	.014	.014	0.2
08/07/86			
1 (AM)	.152	.003	151.9
3 (AM)	.051	.007	43.5
4 (AM)	.134	.017	12.3
9 (AM)	.016	.012	0.7
1 (PM)	.489	.003	499.5
3 (PM)	.053	.004	48.7
4 (PM)	.110	.021	10.0
9 (PM)	.017	.017	0.2
09/07/86			
1 (AM)	.333	.004	337.5
3 (AM)	.057	.006	50.8
4 (AM)	.122	.022	11.5
9 (AM)	.018	.017	0.3
1 (PM)	.544	.003	556.2
3 (PM)	.061	.007	53.9
4 (PM)	.132	.026	11.1
9 (PM)	.022	.021	0.3
10/07/86			
1 (AM)	.259	.003	262.2
3 (AM)	.049	.003	45.6
4 (AM)	.090	.021	7.3
9 (AM)	.016	.017	0.0
1 (PM)	.345	.002	352.0
3 (PM)	.049	.008	40.4
4 (PM)	.089	.023	7.0
9 (PM)	.019	.018	0.3
11/07/86			
1 (AM)	.263	.003	266.4
3 (AM)	.052	.008	43.5
4 (AM)	.093	.021	7.6
9 (AM)	.014	.015	0.0
1 (PM)	.510	.004	520.1
3 (PM)	.060	.008	51.8
4 (PM)	.098	.023	7.9
9 (PM)	.020	.019	0.3

Chlorine values

sample site	abs. reading	blank	ug/L
14/07/86			
1 (AM)	.298	.001	297.7
3 (AM)	.060	.003	57.6
4 (AM)	.139	.022	11.6
9 (AM)	.019	.019	0.0
1 (PM)	.558	.005	553.9
3 (PM)	.139	.009	130.6
4 (PM)	.164	.029	13.4
9 (PM)	.027	.027	0.0
15/07/86			
1 (AM)	.331	.007	324.8
3 (AM)	.067	.010	57.6
4 (AM)	.191	.028	16.1
9 (AM)	.037	.024	1.3
1 (PM)	.499	.003	496.8
3 (PM)	.062	.006	56.6
4 (PM)	.119	.025	9.3
9 (PM)	.022	.022	0.0
16/07/86			
1 (AM)	.325	.005	320.8
3 (AM)	.067	.009	58.6
4 (AM)	.146	.024	12.1
9 (AM)	.014	.014	0.0
1 (PM)	.534	.006	528.9
3 (PM)	.062	.012	50.6
4 (PM)	.111	.022	8.8
9 (PM)	.020	.020	0.0
17/07/86			
1 (AM)	.422	.003	419.8
3 (AM)	.052	.007	45.6
4 (AM)	.101	.027	7.3
9 (AM)	.027	.027	0.0
1 (PM)	.593	.003	590.9
3 (PM)	.062	.005	57.6
4 (PM)	.118	.031	8.6
9 (PM)	.026	.026	0.0
18/07/86			
1 (AM)	.359	.005	354.8
3 (AM)	.053	.006	47.6
4 (AM)	.102	.024	7.7
9 (AM)	.022	.020	0.2
1 (PM)	.563	.003	560.9
3 (PM)	.058	.007	51.6
4 (PM)	.118	.038	7.9
9 (PM)	.020	.020	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
21/07/86			
1 (AM)	.252	.003	253.6
3 (AM)	.059	.006	53.5
4 (AM)	.131	.023	11.0
9 (AM)	.019	.019	0.0
22/07/86			
1 (AM)	.253	.003	254.7
3 (AM)	.056	.005	51.5
4 (AM)	.123	.022	10.3
9 (AM)	.019	.019	0.0
1 (PM)	.443	.002	449.7
3 (PM)	.053	.005	48.4
4 (PM)	.091	.024	6.8
9 (PM)	.018	.018	0.0
23/07/86			
4 (AM)	.108	.023	8.7
9 (AM)	.018	.018	0.0
24/07/86			
1 (AM)	.276	.002	279.2
3 (AM)	.081	.007	74.9
4 (AM)	.121	.027	9.6
9 (AM)	.043	.029	1.4
1 (PM)	.357	.000	363.9
3 (PM)	.080	.001	80.1
4 (PM)	.158	.028	13.3
9 (PM)	.024	.024	0.0
25/07/86			
1 (AM)	.174	.002	175.0
3 (AM)	.049	.004	45.3
4 (AM)	.160	.028	13.5
9 (AM)	.023	.022	0.1
1 (PM)	.349	.003	352.7
3 (PM)	.052	.003	49.4
4 (PM)	.102	.022	8.1
9 (PM)	.020	.019	0.1

Chlorine values

sample site	obs. reading	blank	ug/L
29/07/86			
1 (AM)	.190	.003	189.4
3 (AM)	.077	.004	72.9
4 (AM)	.170	.024	14.9
9 (AM)	.028	.020	0.8
1 (PM)	.424	.002	429.5
3 (PM)	.100	.010	90.2
4 (PM)	.173	.028	14.8
9 (PM)	.030	.025	0.5
30/07/86			
1 (AM)	.190	.002	190.4
3 (AM)	.079	.007	71.9
4 (AM)	.206	.028	18.2
9 (AM)	.034	.021	1.3
1 (PM)	.401	.002	406.0
3 (PM)	.057	.004	52.4
4 (PM)	.123	.027	9.8
9 (PM)	.023	.023	0.0
30/07/86			
1 (AM)	.177	.003	176.1
3 (AM)	.044	.006	37.1
4 (AM)	.108	.021	8.9
9 (AM)	.018	.018	0.0
1 (PM)	.342	.000	347.8
3 (PM)	.051	.002	48.3
4 (PM)	.108	.021	8.9
9 (PM)	.020	.020	0.0
31/07/86			
1 (AM)	.163	.002	162.8
3 (AM)	.041	.003	37.1
4 (AM)	.098	.022	7.8
9 (AM)	.020	.020	0.0
1 (PM)	.363	.002	367.2
3 (PM)	.048	.003	44.3
4 (PM)	.112	.026	8.8
9 (PM)	.020	.020	0.0
01/08/86			
1 (AM)	.189	.002	189.4
3 (AM)	.040	.003	36.1
4 (AM)	.102	.022	8.2
9 (AM)	.018	.018	0.0
9 (PM)	.017	.017	0.0

Chlorine values

sample site	abs. reading	blank	ug/L
05/08/86			
1 (AM)	.199	.003	200.8
3 (AM)	.056	.004	52.0
4 (AM)	.157	.023	13.6
9 (AM)	.021	.020	0.3
9 (PM)	.023	.023	0.2
06/08/86			
9 (PM)	.036	.029	0.9
07/08/86			
1 (AM)	.256	.003	259.7
3 (AM)	.060	.005	55.1
4 (AM)	.184	.027	15.9
9 (AM)	.038	.024	1.6
9 (PM)	.021	.021	0.2
08/08/86			
1 (AM)	.246	.003	249.4
3 (AM)	.051	.006	44.8
4 (AM)	.121	.023	10.0
9 (AM)	.023	.021	0.4
9 (PM)	.021	.021	0.2

Chlorine values

sample site	abs. reading	blank	ug/L
12/09/86			
1 (AM)	.205	.004	205.2
3 (AM)	.052	.007	44.5
4 (AM)	.139	.022	11.8
9 (AM)	.026	.021	0.5
9 (PM)	.023	.022	0.1
13/09/86			
1 (AM)	.176	.002	177.4
3 (AM)	.062	.003	58.6
4 (AM)	.124	.028	9.7
9 (AM)	.024	.023	0.1
9 (PM)	.028	.025	0.3
14/09/86			
1 (AM)	.252	.006	251.6
3 (AM)	.068	.008	59.9
4 (AM)	.148	.028	12.1
9 (AM)	.029	.029	0.0
9 (PM)	.023	.022	0.1
15/09/86			
1 (AM)	.145	.006	141.4
3 (AM)	.073	.008	65.1
4 (AM)	.182	.028	15.5
9 (AM)	.032	.027	0.5
9 (PM)	.034	.028	0.6

Chlorine values

sample site	abs. reading	blank	ug/L
18/08/86			
1 (AM)	.193	.004	195.8
3 (AM)	.084	.006	80.1
4 (AM)	.223	.030	19.5
9 (AM)	.043	.028	1.4
9 (PM)	.022	.022	0.0
19/08/86			
1 (AM)	.188	.005	189.5
3 (AM)	.052	.007	45.7
4 (AM)	.139	.027	11.3
9 (AM)	.025	.025	0.0
9 (PM)	.022	.022	0.0
20/08/86			
1 (AM)	.168	.003	170.7
3 (AM)	.073	.004	70.7
4 (AM)	.118	.023	9.5
9 (AM)	.021	.021	0.0
9 (PM)	.032	.025	0.6
21/08/86			
1 (AM)	.246	.003	252.0
3 (AM)	.060	.006	55.0
4 (AM)	.176	.027	15.0
9 (AM)	.030	.025	0.4
9 (PM)	.032	.026	0.5
22/08/86			
1 (AM)	.196	.003	199.9
3 (AM)	.047	.003	44.6
4 (AM)	.113	.024	8.9
9 (AM)	.022	.022	0.0
9 (PM)	.019	.019	0.0

Chlorine values

sample site		abs. reading	blank	ug/L
25/08/86				
	1 (AM)	.237	.007	238.2
	3 (AM)	.057	.005	50.2
	4 (AM)	.162	.025	13.8
	9 (AM)	.031	.026	0.3
	9 (PM)	.028	.025	0.1
26/08/86				
	1 (AM)	.203	.007	202.3
	3 (AM)	.073	.004	68.3
	4 (AM)	.190	.027	16.3
	9 (AM)	.040	.026	1.2
	9 (PM)	.043	.030	1.1
27/08/86				
	1 (AM)	.213	.005	214.9
	3 (AM)	.098	.004	94.7
	4 (AM)	.233	.032	20.1
	9 (AM)	.076	.031	4.3
	9 (PM)	.042	.032	0.8
28/08/86				
	1 (AM)	.253	.005	257.1
	3 (AM)	.092	.006	86.2
	4 (AM)	.216	.031	18.5
	9 (AM)	.051	.029	2.0
	9 (PM)	.032	.028	0.2
29/08/86				
	1 (AM)	.267	.003	274.0
	3 (AM)	.086	.005	80.9
	4 (AM)	.219	.031	18.8
	9 (AM)	.033	.030	0.1
	9 (PM)	.038	.032	0.4

Chlorine values

sample site	abs. reading	blank	ug/L
02/09/86			
1 (AM)	.551	.010	550.3
3 (AM)	.131	.007	125.1
4 (AM)	.285	.035	24.7
9 (AM)	.059	.033	2.4
9 (PM)	.051	.038	1.1
03/09/86			
1 (AM)	.345	.007	343.3
3 (AM)	.112	.003	109.8
4 (AM)	.301	.032	26.6
9 (AM)	.062	.036	2.4
9 (PM)	.041	.034	0.5
04/09/86			
1 (AM)	.336	.008	333.1
3 (AM)	.112	.005	107.8
4 (AM)	.284	.033	24.8
9 (AM)	.057	.033	2.2
9 (PM)	.047	.028	1.7
05/09/86			
1 (AM)	.341	.006	340.2
3 (AM)	.082	.004	78.2
4 (AM)	.202	.025	17.4
9 (AM)	.032	.026	0.4
9 (PM)	.030	.028	0.2

Chlorine values

sample site		abs. reading	blank	ug/L
08/09/86				
	1 (AM)	.395	.007	383.5
	3 (AM)	.088	.003	85.2
	4 (AM)	.233	.027	20.7
	9 (AM)	.039	.026	1.3
	9 (PM)	.033	.029	0.4
09/09/86				
	1 (AM)	.393	.007	381.5
	3 (AM)	.098	.006	92.1
	4 (AM)	.258	.030	22.9
	9 (AM)	.043	.028	1.5
	9 (PM)	.033	.032	0.1
10/09/86				
	1 (AM)	.307	.008	295.8
	3 (AM)	.091	.011	80.3
	4 (AM)	.209	.028	18.2
	9 (AM)	.029	.027	0.2
	9 (PM)	.028	.028	0.0
11/09/86				
	1 (AM)	.407	.005	397.2
	3 (AM)	.082	.003	79.3
	4 (AM)	.199	.025	16.5
	9 (AM)	.028	.026	0.2
	9 (PM)	.028	.028	0.0
12/09/86				
	1 (AM)	.327	.007	316.5
	3 (AM)	.079	.003	76.2
	4 (AM)	.194	.026	16.9
	9 (AM)	.027	.025	0.2
	9 (PM)	.029	.028	0.1

Chlorine values

sample site	abs. reading	blank	ug/L
15/09/86			
1 (AM)	.400	.008	400.0
3 (AM)	.092	.003	87.1
4 (AM)	.243	.026	21.6
9 (AM)	.032	.025	0.6
9 (PM)	.032	.031	0.0
16/09/86			
1 (AM)	.395	.008	394.9
3 (AM)	.106	.004	100.6
4 (AM)	.263	.031	23.1
9 (AM)	.046	.032	1.3
9 (PM)	.044	.032	1.1
17/09/86			
1 (AM)	.404	.006	406.2
3 (AM)	.154	.004	150.1
4 (AM)	.262	.030	23.1
9 (AM)	.040	.029	1.0
9 (PM)	.048	.034	1.3
18/09/86			
1 (AM)	.512	.008	515.7
3 (AM)	.091	.003	86.1
4 (AM)	.253	.032	21.9
9 (AM)	.051	.037	1.3
9 (PM)	.	.	1.4
19/09/86			
1 (PM)	.	.	547.8
9 (PM)	.	.	1.2

Chlorine values

sample site		abs. reading	blank	ug/L
22/09/86				
	1 (AM)	.	.	627.3
	9 (PM)	.	.	0.4
23/09/86				
	1 (AM)	.	.	574.6
	9 (AM)	.	.	0.1
24/09/86				
	1 (AM)	.	.	238.3
	9 (AM)	.	.	0.9
25/09/86				
	1 (AM)	.	.	162.9
	9 (AM)	.	.	1.0
26/09/86				
	1 (AM)	.	.	337.3
	9 (AM)	.	.	0.5

Chlorine values

sample site	abs. reading	blank	ug/L
29/09/86			
1 (AM)	.	.	427.6
9 (AM)	.	.	0.7
30/09/86			
1 (AM)	.	.	375.9
9 (AM)	.	.	0.3